## AUTHOR INDEX


**A**

Aalderink, R.H. : 179
Abatzopoulos, T. : 1, 2
Abdul-Salam, J. : 3
Abdullah, M.I. : 6
Abdullah, Md.P. : 1506
Abdullahi, B.A. : 4, 5
Abella, C.A. : 7, 591, 592
Abreu-Grobois, F.A. : 8, 9
Achituv, Y. : 337
Acs, E. : 10
Adam, H. : 1428
Adams, C. : 285
Adams, F.C. : 286
Adams, J. : 11
Adams, J.R. : 161
Aditya, A.K. : 12
Admiraal, W. : 13, 199
Adrian, R. : 14
Agatsiva, J.L. : 586
Aguilar-Rosas, L.E. : 352
Aguilar-Rosas, R. : 15, 352
Ahl, J.S.B. : 16
Ahlf, W. : 17, 18, 260, 261
Ahlgren, M.O. : 19, 20
Ahrens, M.A. : 21
Ahtiainen, M. : 22
Aiello, R. : 278
Aikawa, M. : 23
Aiken, R.B. : 1099
Aizaki, M. : 572
Åkesson, B. : 742
Al-Adhub, A.H.Y. : 1486
Al-Khedery, B. : 3
Al-safadi, M.M. : 24, 25
Alabi, R.O. : 1266
Aladin, N.V. : 26, 27
Alberts, J.J. : 613
Aldenberg, T. : 822
Aleem, A.A. : 28
Alexeev, R.P. : 29
Aleya, L. : 30
Alfinito, S. : 31, 1424
Algarra, P. : 1718
Ali, A.B. : 32, 33
Ali, M.H. : 1486
Ali, O,M. : 219
Allan, J.D. : 34
Allen, P.V. : 756
Alleng, G.P. : 87
Alliot, E. : 117
Almeida, E.J.C. : 35
Almiron, A.E. : 1132
Alonso, M. : 36, 37, 38, 622
Alvarez Cobelas, M. : 1454
Alverez de Meneses, A. : 680
Amadi, A.A. : 39
Amano, H. : 1244, 1352
Amano, K. : 40
Amarasinghe, M.D. : 41, 42
Amat, F. : 43, 1225
Amat, M.A. : 44
Amblard, C. : 30
Amorim-Ferreira, A. : 233
Amoros, C. : 1077
Amrani, J. : 1353
Amsellem, J. : 321
Anadón, P. : 45
Anadu, D.I. : 46
Andersen, F.O. : 47
Andersen, T. : 751
Anderson, E.K. : 1247
Anderson, N.H. : 48
Anderson, R.J. : 49
Andersson, T. : 50
André, C. : 996
Andreu-Moliner, E. : 519
Andrew, T.E. : 51, 465
Andriantsiferana, M. : 1158
Andrikovics, S. : 603
Ang, Jr., P. : 52
Angela Negrisolo, P. : 278
Angradi, T.R. : 53
Angrand, E. : 425
Anlauf, A. : 54
Anonymous : 55, 56
Anton, K.K. : 1841
Anzai, H. : 1241
Aoki, M. : 57
Appelberg, M. : 407
Apperley, L.W. : 58
Appleby, P.G. : 59, 194, 1261
Appleton, C.C. : 236, 700, 701
Aprahamian, M.W. : 60
Arai, M.N. : 61
Arakel, A.V. : 62, 63
Araki, S. : 64
Aramaki, M. : 939
Arar, M. : 855
Arashima, K. : 1244
Arbouille, D. : 1627
Arcifa, M.S. : 1248
Arenas, P. : 1061
Arfi, R. : 672
Armisén, R. : 65
Armitage, M.J. : 66, 67
Armstrong, S.L. : 68
Arnold, D.E. : 1586
Arthington, A.H. : 1285
Aruga, Y. : 69, 1252
Arumugam, P.T. : 70
Arunachalam, M. : 71
Arvola, L. : 72, 1487, 1488, 1730
Ashcroft, C.R. : 112
Ashton, P.J. : 1541, 1705
Atchison, G.J. : 1528
Ates, R.M.L. : 73
Atkin, T. : 1319
Auer, B. : 747
Auer, M.T. : 74
Auer, N.A. : 74
Augris, C. : 1358
Aumen, N.G. : 75
Aurich, M. : 76
Avian, M. : 77, 78, 1460
Avnimelech, Y. : 1641
Ax, P. : 79
Azam, F. : 1564
Azanza-Corrales, R. : 80
Azariah, H. : 81, 1550
Azariah, J. : 81, 82, 1550
Azoulay, B. : 83, 85
Azuma, M. : 84

**B**

Baba, I. : 1506
Babcock, R.C. : 1474
Bachiorri, A. : 86, 524
Bachmann, M.D. : 943
Bachmann, R.W. : 249

## AUTHOR INDEX


**A**

Aalderink, R.H. : 179
Abatzopoulos, T. : 1, 2
Abdul-Salam, J. : 3
Abdullah, M.I. : 6
Abdullah, Md.P. : 1506
Abdullahi, B.A. : 4, 5
Abella, C.A. : 7, 591, 592
Abreu-Grobois, F.A. : 8, 9
Achituv, Y. : 337
Acs, E. : 10
Adam, H. : 1428
Adams, C. : 285
Adams, F.C. : 286
Adams, J. : 11
Adams, J.R. : 161
Aditya, A.K. : 12
Admiraal, W. : 13, 199
Adrian, R. : 14
Agatsiva, J.L. : 586
Aguilar-Rosas, L.E. : 352
Aguilar-Rosas, R. : 15, 352
Ahl, J.S.B. : 16
Ahlf, W. : 17, 18, 260, 261
Ahlgren, M.O. : 19, 20
Ahrens, M.A. : 21
Ahtiainen, M. : 22
Aiello, R. : 278
Aikawa, M. : 23
Aiken, R.B. : 1099
Aizaki, M. : 572
Åkesson, B. : 742
Al-Adhub, A.H.Y. : 1486
Al-Khedery, B. : 3
Al-safadi, M.M. : 24, 25
Alabi, R.O. : 1266
Aladin, N.V. : 26, 27
Alberts, J.J. : 613
Aldenberg, T. : 822
Aleem, A.A. : 28
Alexeev, R.P. : 29
Aleya, L. : 30
Alfinito, S. : 31, 1424
Algarra, P. : 1718
Ali, A.B. : 32, 33
Ali, M.H. : 1486
Ali, O,M. : 219
Allan, J.D. : 34
Allen, P.V. : 756
Alleng, G.P. : 87
Alliot, E. : 117
Almeida, E.J.C. : 35
Almiron, A.E. : 1132
Alonso, M. : 36, 37, 38, 622
Alvarez Cobelas, M. : 1454
Alverez de Meneses, A. : 680
Amadi, A.A. : 39
Amano, H. : 1244, 1352
Amano, K. : 40
Amarasinghe, M.D. : 41, 42
Amat, F. : 43, 1225
Amat, M.A. : 44
Amblard, C. : 30
Amorim-Ferreira, A. : 233
Amoros, C. : 1077
Amrani, J. : 1353
Amsellem, J. : 321
Anadón, P. : 45
Anadu, D.I. : 46
Andersen, F.O. : 47
Andersen, T. : 751
Anderson, E.K. : 1247
Anderson, N.H. : 48
Anderson, R.J. : 49
Andersson, T. : 50
André, C. : 996
Andreu-Moliner, E. : 519
Andrew, T.E. : 51, 465
Andriantsiferana, M. : 1158
Andrikovics, S. : 603
Ang, Jr., P. : 52
Angela Negrisolo, P. : 278
Angradi, T.R. : 53
Angrand, E. : 425
Anlauf, A. : 54
Anonymous : 55, 56
Anton, K.K. : 1841
Anzai, H. : 1241
Aoki, M. : 57
Appelberg, M. : 407
Apperley, L.W. : 58
Appleby, P.G. : 59, 194, 1261
Appleton, C.C. : 236, 700, 701
Aprahamian, M.W. : 60
Arai, M.N. : 61
Arakel, A.V. : 62, 63
Araki, S. : 64
Aramaki, M. : 939
Arar, M. : 855
Arashima, K. : 1244
Arbouille, D. : 1627
Arcifa, M.S. : 1248
Arenas, P. : 1061
Arfi, R. : 672
Armisén, R. : 65
Armitage, M.J. : 66, 67
Armstrong, S.L. : 68
Arnold, D.E. : 1586
Arthington, A.H. : 1285
Aruga, Y. : 69, 1252
Arumugam, P.T. : 70
Arunachalam, M. : 71
Arvola, L. : 72, 1487, 1488, 1730
Ashcroft, C.R. : 112
Ashton, P.J. : 1541, 1705
Atchison, G.J. : 1528
Ates, R.M.L. : 73
Atkin, T. : 1319
Auer, B. : 747
Auer, M.T. : 74
Auer, N.A. : 74
Augris, C. : 1358
Aumen, N.G. : 75
Aurich, M. : 76
Avian, M. : 77, 78, 1460
Avnimelech, Y. : 1641
Ax, P. : 79
Azam, F. : 1564
Azanza-Corrales, R. : 80
Azariah, H. : 81, 1550
Azariah, J. : 81, 82, 1550
Azoulay, B. : 83, 85
Azuma, M. : 84

**B**

Baba, I. : 1506
Babcock, R.C. : 1474
Bachiorri, A. : 86, 524
Bachmann, M.D. : 943
Bachmann, R.W. : 249

Backus, B.T. : 1863
Backx, J.J.G.M. : 663
Bacon, P.R. : 87
Bagge, P. : 88, 694
Baguñà, J. : 1455, 1592
Bailey, P. : 724
Bailey, R.G. : 89
Baird, D.J. : 90
Bak, R.P.M. : 460
Bakema, A.H. : 91
Baker, J.H. : 1589
Baker, J.R. : 667
Baker, R.A. : 92
Bakker, K. : 1753
Balasubramaniam, S. : 41, 42
Baldock, B.M. : 1589
Baldwin, H.P. : 553
Baley, S.E. : 1522
Balfoort, H.W. : 93
Balirwa, J.S. : 94
Balkhi, M.H. : 1395
Balla, S.A. : 95
Ballard, J.W.O. : 96
Ballestra, S. : 521
Balling, S.F. : 140
Bally, A. : 1526
Balsa, J. : 1495
Balseiro, E.G. : 97
Baltanás, A. : 98, 1495
Balustein, L. : 99
Balvay, G. : 100
Båmstedt, U. : 1669
Banahan, S. : 349
Banchetti, R. : 1422
Bantle, J.A. : 101
Barbanti, a. : 102
Barber, I. : 90
Barbieri, R. : 103
Barbieri, S.M. : 104
Barbosa, F.A.R. : 105
Barendregt, A. : 106
Barica, J. : 107
Barilotti, D.C. : 108, 552
Barker, P. : 109
Barko, J. : 903
Barko, J.W. : 820
Bärlocher, F. : 110
Barnard, J.L. : 111
Barnes, H.S. : 1868
Barnett, B.E. : 112
Baron, C.L. : 1004
Barr, R. : 112
Barthélémy, D. : 857
Bartodziej, W. : 113
Barton, D.R. : 1484
Barton, M. : 1715
Bartsch, I. : 114
Basford, K.E. : 96
Basil, J.A. : 115
Bass, D. : 116
Basset, A. : 1458
Baudin, J.P. : 594
Baudinet, D. : 117, 657
Baudo, R. : 118, 332
Baumann, P.C. : 845
Baumhauer, R. : 119
Bayly, I.A.E. : 120
Bayne, D.R. : 121, 1815
Bazer, L.J. : 513
Beamish, F.W.H. : 1006
Beardmore, J.A. : 8
Beaver, J.R. : 122, 123, 358
Beck, J.N. : 124
Beck, K. : 1526
Beckett, R. : 125, 1577
Becquevort, S. : 162
Bedini, C. : 526
Beech, T.A. : 1236
Beeckman, H. : 342
Beer, S. : 989
Beidler, A.W. : 1108
Bel, C. : 425
Belanger, S.E. : 126
Belay, A. : 892
Belk, D. : 127
Bell, R.T. : 1665
Bellanger, F. : 128
Beloussov, L.V. : 129
Ben-Yaakov, S. : 1242
Benayahu, Y. : 130
Benderas Tarabay, A. : 131
Benest, D. : 595, 596
Bengtsson, L. : 132, 133
Bening, J.-C. : 260
Benndorf, J. : 134
Bennison, G. : 779
Benson-Evans, K. : 851
Benzie, J.A.H. : 135, 136
Berberovic, R. : 137
Berdalet, E. : 138, 929, 970, 1063
Berger, C. : 139
Berger-Wiersma, T. : 930
Bergey, E.A. : 140, 141
Berghe, E.V. : 1673
Berghuis, E.M. : 460
Bergquist, B. : 1012
Bergstein-Ben Dan, T. : 251
Bergstrand, E. : 142
Berland, B. : 117
Berman, T. : 93, 143, 1564, 1641, 1869
Bernard, D.P. : 144
Bernardi, R.de : 145
Bernart, M.W. : 608
Bernat, M. : 521
Bernat, Y. : 1002
Berner, D.B. : 146
Berrie, A.D. : 147, 148, 1022
Berrill, M. : 1462
Bertilsson, J. : 150, 151
Bertoni, R. : 259
Bervoets, L. : 149
Berzins, B. : 150, 151, 152, 153, 154, 155, 1313
Best, B.J. : 156
Best, E.P.H. : 157, 1047
Bethune, S. : 236
Beuchamp, S.T. : 886
Beutlich, A. : 158
Beveridge, M.C.M. : 1717
Bezanson, D.S. : 1564
Bharath, A. : 1102
Bhargava, S.C. : 815
Bhattacharya, D. : 159
Bhattacharya, T. : 160
Bhowmik, N.G. : 161
Bianchi, A. : 523
Bianchi, C.N. : 326
Bianchi, M. : 1564
Bidondo, B. : 1495
Biggam, R.C. : 242
Bikar, K. : 137

Billeck, B.N. : 1004
Billen, G. : 162
Billington, N. : 163
Bin, S. : 491
Binanni, P. : 164
Biney, C.A. : 165
Binford, M.W. : 220
Bingham, C.R. : 166
Bird, A.F. : 1236
Bird, C.J. : 167
Bird, G.A. : 168
Bird, K.T. : 169
Birge, W.J. : 1573
Birger, S. : 1493
Birkeland, J.M. : 615
Biró, P. : 170, 171
Birtwell, I.K. : 172
Biswas, S. : 173
Bjorndalen, K. : 1010
Black, J.A. : 1573
Blackburn, J.H. : 1052
Blaise, C. : 1698
Blakar, I. : 174
Blanc, F. : 987
Blanc, P. : 529
Blaustein, L. : 175, 176, 177
Blinn, D.W. : 178
Blöcker, G. : 1533
Blom, G. : 179, 1746
Blomqvist, P. : 1272, 1335
Blomqvist, S. : 180
Blouin, A.C. : 886
Blundo, C.M. : 1293
Bodin, P. : 181
Boero, F. : 204
Boers, P. : 182, 1740
Boersma, M. : 1775
Boesewinkel-de Bruyn, N. : 956
Boesewinkel-de Bruyn, P.J. : 1757
Bogaert, G. : 183
Bokn, T. : 184
Bolger, T. : 185
Bolier, G. : 186, 187, 902
Bollens, S.M. : 188
Bolsenga, S.J. : 189, 190, 1758
Bolton, J.J. : 811
Bolzern, A.M. : 1289, 1421
Bonacina, C. : 191, 192
Bondon, D. : 1340
Bonetto, C. : 1061
Bonin, D. : 1564
Bonin, P. : 193
Bonnemain, H. : 425
Bonnett, P.J.P. : 194, 195
Bonoff, M.S. : 667
Bonomi, G. : 191, 192
Bontoux, J. : 1340
Boon, J.J. : 157
Boraas, M.E. : 767
Borgmann, U. : 196
Borisov, S.N. : 453
Borja, A. : 856
Borstelmann, B. : 158
Bosch, T.C.G. : 197
Bosnia, A.S. : 198
Bosselmann, S. : 835, 1430
Bossert, P. : 1590
Boström, B. : 239
Botermans, Y.J.H. : 199
Bothár, A. : 200
Boucher, G. : 201, 319
Boucher-Rodoni, R. : 201
Boudrias, M.A. : 202
Bougrier,S. : 418
Bouguenec, V. : 203
Bouillon, J. : 204
Boulding, E.G. : 205
Boulton, A.J. : 206, 207, 1853, 1855
Boumnich, L. : 384
Bouquegneau, J.M. : 744
Bouvet, Y. : 208
Bouvy, M. : 411
Bowden, W.B. : 209
Bowen, S.H. : 19, 20
Bowling, I.C. : 210
Boy, V. : 662
Braak, C.J.F.ter : 211
Brabrand, Å. : 501, 1014
Brace, R.C. : 212
Bracken, J.J. : 185
Bradley, M. : 90
Bradley, P.M. : 213
Brailsford, T.J. : 1846
Brana, F. : 214
Brancati, A. : 1485
Brancelj, A. : 215, 216
Branchil, C.N. : 527
Brandini, F.P. : 217
Brandl, Z. : 218
Brandolin, C. : 1210
Braud, J.-P. : 44, 353
Breen, C.M. : 1887
Brendonck, L. : 219, 354
Brenner, M. : 220
Bretschko, G. : 221
Brett, M.T. : 222
Breugem, P. : 13
Breukelaar, A.W. : 1125
Brewer, C.A. : 223
Brewer, R.H. : 224
Brewinska-Zaras, B. : 1883
Brinkhurst, R.O. : 225, 226
Briseño-Dueñas, R. : 9
Britton, D.L. : 227, 228
Brix, H. : 1015
Brncelj, A. : 229
Brock, J.T. : 1468
Brodin, Y-W. : 230
Bromley, H.J. : 406
Brönmark, C. : 231
Brookfield, D. : 1261
Brooks, W.R. : 232
Brotas, V. : 233
Browder, G. : 1365
Brown, A.C. : 646
Brown, A.V. : 234, 241
Brown, D.S. : 235, 236
Brown, L.M. : 1258
Brown, M.T. : 302
Bruce, A.J. : 237
Brun, G. : 238
Brun, L. : 425
Brunberg, A.-K. : 239
Brunel, P. : 301
Brunn, S.E. : 240
Bruns, R.E. : 610
Brussock, P.P. : 234, 241
Brusven, M.A. : 242
Bruton, M.N. : 243
Bruylants, B. : 149

Bryan, C.F. : 907
Bryan, F.C. : 908
Bryant, Jr., R.M. : 640
Brydsten, L. : 244, 1044
Bucher, J.B. : 574
Bueno, D. : 1455
Bugenyi, F.W.B. : 245
Buiteveld, H. : 1125
Bunn, S.E. : 246
Burford, M.A. : 1181
Burger-Wiersma, T. : 630, 666
Burkholder, J.M. : 498
Burnett, J.W. : 247
Burns, C.W. : 250, 1871
Burrows, I.G. : 1514
Burt, A.J. : 248
Burton, D.T. : 533
Burton, H. : 494
Burton, H.R. : 556
Burton, S. : 146
Busby, J.R. : 1854
Buscail, R. : 1765
Bushong, S.J. : 249
Bussers, J.C. : 744
Butler, M.G. : 717
Butler, M.I. : 250
Butow, B. : 251
Buyse, J.J. : 487
Bytel, J. : 284

## C

Cabioch, J. : 1358
Cabridenc, R. : 1410
Cáceres, O. : 312
Cai, S. : 252
Cairns, J. Jr. : 253, 254, 255, 1104, 1105, 1106,1280
Calazans, C.F. : 945
Calder, D.R. : 256
Caljon, A.G. : 257
Caljon, A.J. : 258
Callieri, C. : 259
Calmano, W. : 17, 260, 261
Calow, P. : 90, 262, 1046, 1226
Calvo, J. : 1171
Camargo, J.A. : 263, 264
Cambell, R.N.B. : 617
Cambiaso, C. : 966
Cambray, R.S. : 195
Cameron, A.M. : 265
Camp, J. : 1773
Campos, V. : 1891
Cannon, L.R.G. : 266
Capblancq, J. : 267
Caprioli, R. : 164
Caquet, T. : 268
Carcia Rubies, A. : 791
Carey, A.E. : 1017
Carey, H.J. : 322
Carl, L.M. : 269, 270
Carlough, L.A. : 271
Carlson, T.A. : 1782
Carmona, M.J. : 272
Carney, H.J. : 484
Carreiro, M.C.V : 1028
Carrick, H.J. : 273
Carrick, T.R. : 756
Carrillo, P. : 274, 275, 1161
Carvajal-Chitty, H.I. : 276
Casas, J.J. : 277
Casciotta, J.R. : 1132
Casellas, C. : 1340
Casellato, S. : 278, 279
Casier, P. : 451
Castellon, C. : 644
Castonguay, M. : 280
Caswell, R.C. : 579
Catarino, F. : 233
Cattaneo, A. : 281, 282
Cazares, L.H. : 1309
Cazaubon, A. : 1700
Cazelles, B. : 543
Ceccherelli, V.U. : 102
Cecere, E. : 283
Cerezo, A.S. : 692, 1348
Cerny, M. : 284
Chadwick, N.E. : 285
Chakraborti, D. : 286
Chalamet, A. : 1160
Chambers, F.M. : 851
Champoux, L. : 1591
Chandrasekhar, K.R. : 287
Chang, Y.Y. : 329
Chant, L. : 347
Chapman, A.R.O. : 288, 289, 290
Chapman, F.A. : 1247
Chapman, L.J. : 291
Chappaz, R. : 238
Chappell, J.D. : 1360
Charlesworth, S.M. : 550
Charlier, R.H. : 1162
Charpy, L. : 292
Charpy-Roubaud, C.J. : 292
Charrière, B. : 293
Chassé, R. : 294
Chatterji, A. : 295
Chauvet, E. : 296
Cheggour, M. : 297
Chen, J. : 298
Cheney, D.P. : 213
Chengalath, R. : 299
Cheslak, E.F. : 1693
Cheung, W. : 1808
Cheung, Y.H. : 300
Chevrier, A. : 301
Chin, N.K.M. : 302
Chivas, A.R. : 1017
Chong, V.C. : 1508
Chorus, I. : 303
Chovance, A. : 1785
Chow-Fraser, P. : 304
Christiaen, D. : 128
Christiansen, C. : 305
Christie, W.J. : 1596
Christoffersen, K. : 306, 835, 1430
Chróst, R.J. : 307
Chrzanowski, T.H. : 308
Churchland, L. : 459
Ciacco, P. : 1485
Ciborowski, J.J.H. : 309, 310
Ciceri, G. : 311
Cichra, C.E. : 1277
Cimbleris, A.C.P. : 312
Citarella, G. : 313
Claeys, D. : 219
Claps, M.C. : 314
Clark, F. : 315
Clausen, C. : 316
Clavero, V. : 317, 318
Clavier, C.G.J. : 319
Clayton, P.D. : 320

Clément, P. : 321
Cloke, P.L. : 894
Coakley, J.P. : 322
Coates, K.A. : 323, 324
Cobb, D.G. : 325
Cobelas, M.A. : 680
Coburn, Jr., C.B. : 1657
Cocito, S. : 326
Cocquyt, C.Z. : 258
Cohen, R.G. : 327
Colbo, M.H. : 1107
Colburn, R.A. : 1800
Cole, K.M. : 999
Coleman, C.O. : 328
Coler, M. : 329
Coler, R.A. : 329, 1447, 1448
Coles, S.L. : 1364
Coles, T.F. : 1319
Colijn, F. : 1322
Colino, R. : 1359
Collins, J.D. : 320
Collins, J.N. : 140
Colon, M. : 447, 448
Comín, F.A. : 330, 331
Comín, M.P. : 330
Coniglio, L. : 332
Conlan, K.E. : 333
Conley, W.J. : 334
Connor, T.B. : 62
Conroy, M. : 1338
Contesini, M. : 259
Conzonno, V. : 1059
Conzonno, V.H. : 335
Cook, L.M. : 336
Cook, P.A. : 337
Cooke, J.G. : 338
Cooper, A.B. : 339
Cooper, J.E. : 340
Cooper, K.L. : 341
Cooper, S. : 976
Coppejans, E. : 342
Cordiviola de Yuan, E. : 343, 344
Corkum L.D. : 345, 346
Corliss, T. : 1329
Corliss, T.L. : 925
Cornett, J. : 347
Cornwell, J.C. : 348, 349, 350
Corrêa, D.D. : 351
Correa-Díaz, F. : 352
Cosson, J. : 353
Côté, R. : 294
Cotelli, F. : 470
Cotugno, A. : 1674
Couillard, Y. : 1591
Couto, A.L. : 731
Coutteau, P. : 354
Couture, P. : 355
Cowell, B.C. : 356
Craigie, J.S. : 1437
Cranwell, P.A. : 357
Crecelius, E.A. : 1232
Creelman, R.A. : 1435
Creuzé des Châtelliers, M. : 1066
Crick, M.W. : 1261
Crisman, T.L. : 122, 123, 358
Crisp, D.T. : 359, 360, 361
Cristofor, S. : 1738
Critchley, A.T. : 362
Cromar, G.L. : 363
Cronin, S.E. : 1300
Crowder, A. : 364
Crowell, S. : 365
Crowl, T.A. : 366
Crunkilton, R.L. : 367
Cruz-Pizarro, L. : 274, 275, 1161
Cryer, M. : 368
Cuffney, T.F. : 1799
Cuker, B.E. : 369
Cullen, P. : 370
Culver, D. C. : 1080
Cummins, K.W. : 1856
Curini-Galletti, M.C. : 1368
Currey, N.A. : 725
Curtis, B.A. : 236
Curtis, P.J. : 1522
Curtius, A.J. : 610

**D**

D'Angelo, D.J. : 371
D'Cruz, R. : 1508
Daddow, L.Y.M. : 486
Dadzie, S. : 372
Dahms, H.-U. : 373, 374, 375, 1529
Dai, C.-F. : 376
Daldorph, P.W.G. : 377
Dall, E. : 835, 1618
Dall, P.C. : 698
Damborenea, M.C. : 378
Dana, G.L. : 379
Daniel, S.: 470
Daniels, S.A. : 380, 1192
Danielsen, M. : 6
Daoulas, Ch. : 463
Daoyuan, S. : 491
Darlington, S.T. : 381, 382
Dassen, J.H.A. : 157
Daumas, R. : 383, 657
Dauod, H.A. : 185
Dauta, A. : 384
Dave, G. : 385, 1837
David, A.W. : 1309
David, C. : 386
Davids, C. : 1753
Davidson, M.B. : 136
Davidson, N.C. : 387
Davies, B.R. : 1650, 1651
Davies, P.M. : 240, 246
Davies, R.W. : 388, 478, 1579
Davies-Colley, R.J. : 1373
Davis, C.C. : 1696
Davis, J. : 779
Davis, K.B. : 423
Davis-Colley, R.J. : 389
Davison, W. : 921, 1167
Dawes, C.J. : 356
Dawidowicz, P. : 390, 391
Day, J.A. : 228, 1390
de Bernardi, R. : 392, 621
De Graaf Bierbrauwer-Würtz, I.M. : 629
De groot, C.-J. : 393
De Haan, H. : 394
De Haan, M.W. : 1125
De Kloet, W.A. : 1742
De la Lanza Espino, G. : 131
De Manuel, J. : 395
De Marco, C. : 259
De Meester, L. : 396, 397
de Nicola Giudici, M. : 1138
De Ridder, M. : 398, 399
De Ruiter, M.A. : 400

De Visscher, P.R.M. : 362
De Vocht, A. : 401
De Walsche, C. : 402, 403, 404, 451, 452, 963, 1135, 1136, 1207
De Wit, M. : 342
De Wreede, E. : 52
De Zwart, D. : 923
Dearing, J.A. : 405, 580
DeBusk, W.F. : 1392
DeCosta, J. : 821, 1839
Decraemer, W. : 1608
DeFlaun, M.F. : 1309
Degani, G. : 406
Degerman, E. : 407
DeGroodt, E.G. : 408
Dekker, A.G. : 409, 1047
Del Negro, P. : 77
DeLaune, R.D. : 410
Delille, D. : 411
Deng, B. : 298
Densen, W.L.T. van : 1775
Denys, L. : 412
DeOliveira, P. : 1142
Depetris, P.J. : 885
DePinto, J.V. : 1881
Dermarque, Y. : 425
Dermott, R. : 414
Dermott, R.M. : 413
Des Marais, D.J. : 1300
Descolas-gros, C. : 415
Descy, J.-P. : 416
Deslandes, E. : 353, 417
Deslous-Paoli, J.- M. : 418
Destombe, C. : 419
Dévai, G. : 420
DeVantier, L.M. : 265
Devaux, J. : 384
Devi, C.R. : 421, 1396
Dey, T. : 1654
Di Lernia, L. : 471, 966
Di Siervi, M.A. : 1060, 1061
Díaz, R. : 496
Diaz, R.J. : 422, 492
Dickson, L.G. : 1792
Dillon, Jr., R.T. : 423
Dimock, Jr., R.V. : 1058
Dip, M.R. : 859
Dittmann, S. : 424
Dive, D. : 425
Dixit, A.S. : 426
Dixit, S.S. : 426
Dixon, D.G. : 965, 1102, 1204
Dobrzykowski, A.E. : 427
Dobson, M. : 428
Dodds, W.K. : 429, 430, 431
Dodson, S. : 1305
Does, J. van der : 902
Dokulil, M. : 432
Dokulil, M.T. : 433
Doldorph, P.W.G. : 434
Dole-Olivier, M.-J. : 435
Dolédec, S. : 436
Dombrowski, A. : 1636
Dominguez, E. : 437
Dominick, T.F. : 1108
Donadelli, J.L. : 1060, 1061
Done, T.J. : 438
Dong, L. : 298
Donkin, P. : 1836
Donze, M. : 186, 187
Dorsey, K. : 220
Douchement, C. : 1418
Dougherty, J.E. : 439
Drago, E.C. : 440
Drenner, R.W. : 441, 671
Drewes, C.D. : 442
Driscoll, C.T. : 1188
Droppo, I.G. : 1275
Druehl, L.D. : 159
Du, A. : 425
Duarte, C.M. : 443
Duchrow, R.M. : 367
Dudgeon, D. : 444, 445, 446
Duffield, E.C.S. : 1792
Dufour, P. : 447, 448
Duigan, C.A. : 449
Duin, R.N.M. : 1826
Duleba, W. : 1795
Dumont, H.J. : 177, 183, 219, 397, 402, 403, 404, 450, 451, 452, 453, 454, 455, 1018, 1032, 1135, 1136, 1207, 1548
Duncan, A. : 456, 457
Durairatnam, M. : 458
Dushenko, T. : 364
Dussart, B.H. : 160
Dutcher, J.A. : 560
Dutka, B.J. : 459
Duvergé, P.L. : 975
Duyl, F.C.van. : 460
Dyck, L. : 52
Dytham, C. : 461

E

Eadie, B.J. : 322
Early, J. : 340
Ebert, D. : 462
Echenique, R. : 1059
Eckmann, R. : 906
Economidis, P. : 463
Economou, A.N. : 463
Edding, M. : 464
Edgar, A.J. : 465
Edgar, G.J. : 466
Edman, J.D. : 1073
Edmondson, W.T. : 467, 468
Edsall, T.A. : 469, 661, 1239, 1524, 1191
Edward, D.H.D. : 1656
Edwards, R. : 724
Effler, S.W. : 74
Egan, B. : 1876
Eglinton, G. : 506
Eguileor, M. de S. Daniel : 470, 471, 966, 1739
Ehlers, U. : 472
Eie, J.A. : 479
Eijsink, R. : 1772
Eilers, J.M. : 473
Einiö, P. : 1205, 1206
Ejike, C. : 46
Ejsmont-Karabin, J. : 474, 475, 677
Ekisola, O.F. : 753, 754
El Bouhouti, R. : 425
El-Daoushy, F. : 476, 580
El-Habr, H. : 477
El-Shimy, N.A. : 478
Elek, J.A. : 1237
Elgmork, K. : 479
Elkaïm, B. : 297
Elliott, M. : 480
Ellis, B.K. : 431

Ellison, A.M. : 481
Elmberg, J. : 482
Elner, J.K. : 1539
Elo, A.-R. : 1781
Eloranta, P. : 483
Else, P.V. : 1647
Elser, J.J. : 484
Elwood, J.W. : 1188
Emir, N. : 1547
Emson, R.H. : 485
Ende, C.N. von : 1720
Endean, R. : 265, 486
Enell, M. : 580
Engelen, G.B. : 487
Engelmayer, A. : 488
England, K.W. : 489
Erhard, J. : 17
Eriksen, C. : 1154
Eriksson, J.E. : 490
Eriksson, K. : 1412
Erséus, C. : 491, 492, 522
Ersing, N. : 1019
Esala, A.-L. : 1581
Escaravage, V. : 493
Esch, G.W. : 1058
Eskonen, K. : 1491
Eslake, D. : 494
Esparcia, A. : 495
Espindola, E.L.G. : 1086
Essafi-Chergui, K. : 1080
Esteva, J.V. : 592
Esteves, F.A. : 103
Esteves, J.L. : 496
Estrada, M. : 138, 970
Evans, B.I. : 1256
Evans, R.D. : 497
Everitt, D.T. : 498
Eymann, M. : 499
Ezcurra de Drago, I. : 1056
Ezenwaji, H.M.G. : 500

**F**

Faafeng, B.A. : 501, 1014
Fabre, A. : 296
Fabre, A.C. : 502
Facey, D.E. : 503
Fagoonee, I. : 504
Fahnenstiel, G.L. : 1758
Faigle, J.F. : 610
Falcao, M. : 505
Falleni, A. : 656
Fanucci, S. : 326
Farabegoli, A. : 525
Farbstein, H. : 563
Farnsworth, E.J. : 481
Farr, K.M. : 506
Fashuyi, S.A. : 507
Fautin, D.G. : 508, 509
Fedorowski, J. : 510
Fei, X.G. : 511
Fell, P.E. : 512, 513, 514
Feller, R. J. : 1556
Fenner, P.J. : 515
Fenton, G.E. : 516, 517
Ferhi, A. : 673
Ferla, R. : 651
Fernádez-Delgado, C. : 518
Fernández, J.A. : 317, 318, 837
Fernandez, L.V. : 521
Fernandez, M.A. : 945
Fernandez-Casalderrey, A. : 519
Fernando, C.H. : 520, 1130, 1131
Fernex, F. : 521
Ferraguti, M. : 522
Ferrando, M.D. : 519
Ferrara-Guerrero, M. : 523
Ferrari, I. : 524, 525
Ferrero, E.A. : 526, 611
Ferretti, O. : 527, 528
Feuillade, J. : 529
Feuillade, M. : 529
Fibla, J. : 1455
Fichez, R. : 530
Fiebig, D.M. : 531
Fieggen, W. : 787
Finlay, J.C. : 209
Fish, H. : 532
Fisher, D.J. : 533
Fitt, W.K. : 509
FitzGerald, G.J. : 280
Fitzsimons, A.G. : 51
Flannagan, J.F. : 325
Fleckner, W. : 959
Fleituch, T.M. : 534
Flemming, C.A. : 535
Flickinger, S.A. : 1229
Flindt, M.R. : 536
Floc'h, J.Y. : 417, 1358
Floderus, S. : 537, 538, 693
Flower, R.J. : 539
Flößner, D. : 540, 541
Foissner, W. : 587
Fonck, E. : 464
Fonseca, C.P. : 1444
Fontes, J.Ch. : 542
Fontugne, M.R. : 415
Fontvieille, D. : 543
Forbes, I. : 1319
Forès, E. : 544
Fornwall, M.D. : 785
Forró, L. : 1137
Forsberg, C. : 545, 546
Forsgren, G. : 547
Forster, S. : 548
Förstner, U. : 17, 261
Forsyth, D.J. : 549
Fort, D.J. : 101
Foster, I.D.L. : 550
Foster, M.S. : 551, 552
Foulquier, L. : 594
Fourmaux, M.N. : 425
Fox, A.M. : 786
Fralick, R.A. : 553
France, R.L. : 554
Francis, J. : 555
Frank, A.M. : 469
Frankiewicz, P. : 1883
Franzmann, P.D. : 556
Frascari, F. : 102
Fraschetti, S. : 204
Fredericq, S. : 557
Fredriksen, S. : 1465
Freeman, P. : 726
Freitas, E.A.C. : 558
French III, J.R.P. : 559
Freshwater, D.W. : 560
Frey, D.G. : 561
Frick, K. : 1045
Fricke, H.W. : 1523
Fricke, R. : 562

Friedlander, M. : 563, 989
Frisk, T. : 564
Froehlich, E.M. : 35
Frost, B. : 1840
Frost, B.W. : 188
Fryer, G. : 565, 566
Fuché, C. : 1538
Fujii, H. : 567
Fujimura, T. : 568
Fujita, J. : 569
Fujita, Y. : 570
Fukui, Y. : 571
Fukushima, G. : 40
Fukushima, T. : 572, 573
Fuller, R.L. : 574, 874
Fumanti, B. : 31, 1424
Furneaux, R.H. : 575, 576
Furstenberg, J.P. : 577

G

G.-Tóth, L. : 578, 1288, 1687
Gacesa, P. : 579
Gadel, F. : 293
Gaeta, S.A. : 1692
Gaggino, G.F. : 1367
Gaillard, M.-J. : 580
Galai, N. : 563
Galanti, G. : 581
Galassi, S. : 582, 1367
Galat, D.L. : 583
Galil, B. : 625
Galindo, A.M. : 15
Galkovskaya, G.A. : 584
Gálvez, J.A. : 585
Gang, P.O. : 586
Ganner, B. : 587
Gao, S. : 1870
Garcia, C.M. : 588, 589
Garcia-Berthou, E. : 1165
García-Cantizano, J. : 598
Garcia-Gil, L.J. : 7, 591, 592
Garcia-Reina, G. : 590, 1438
Garcia-Tenorio, R. : 476
Gardner, G.A. : 1696
Gardner, T.J. : 753, 754
Gardner, W.S. : 1220, 1758
Garman, G.C. : 593
Garnier, J. : 595, 596
Garnier-Laplace, J : 594
Garofalo, E. : 582
Garrity, L.K. : 654
Garton, D.W. : 687
Gasc, C. : 1701
Gasca, R. : 597
Gasol, J.M. : 598
Gasse, F. : 109, 542, 1737
Gates, T.E. : 388
Gatto, M. : 1590
Gaudy, R. : 599
Gaur, J.P. : 1578
Gaviria, S. : 600
Gazey, P. : 1656
Geairon, P. : 418
Gehr, R. : 1440
Gehrels, J. : 601
Gelder, S.R. : 226, 602
Geller, W. : 137
Gentilhomme, V. : 1383, 1588
Gere, G. : 603
Gerhardt, A. : 604
Gerino, M. : 605
Gerke, I. : 606
Gerstmeier, R. : 607
Gerwick, W.H. : 608
Getabu, A. : 609
Geyer, A.L.M. : 610
Ghiara, E. : 164
Ghirardelli, E. : 611
Giani, N. : 203, 1449
Gibbs, K.E. : 1672
Gibbs, M.M. : 1778
Gibeau, G.G. : 1142
Gibor, A. : 1352
Gibson, R. : 612
Giesy, J.P. : 613, 614
Gijselinck, W. : 1759
Gikunju, J.K. : 615
Gilbert, J.J. : 616
Gili, J.-M. : 791, 1290
Giller, P.S. : 617
Gillieson, D.S. : 618
Giorgio, P.A.del. : 619
Gippel, C.J. : 620
Giussani, G. : 145, 392, 621
Glagolev, S.M. : 622
Glazman, H. : 406
Gliwicz, Z.M. : 623, 624
Godin, J. : 419
Godinho-Orlandi, M.J.L. : 558
Góes, R.M. : 859
Golani, D. : 625
Goldberg, W.M. : 626
Goldman, C.R. : 484, 826, 978
Golladay, S.W. : 1580
Golterman, H.L. : 477, 627, 628, 629, 669
Gómez-Pinchetti, J.L. : 590
Gong, W.-K. : 1732
Gons, H.J. : 630, 631, 632, 633, 929, 1284, 1433, 1434
Gonzalez, E. : 634
González-Villela, R. : 131
Gophen, M. : 83, 85, 243, 635, 636, 637, 638
Gorden, R.W. : 743
Gordon, M.E. : 1339
Gordon-Mills, E. : 639
Gore, J.A. : 640
Gorham, C.T. : 641
Gorissen, M.W. : 1766
Gottlieb, M. : 763
Goubier, V. : 857
Gourbault, N. : 1779
Gourlay, M.R. : 1356
Goutx, M. : 987
Gower, A.M. : 381, 382
Goy, J. : 642
Goyke, A.P. : 643
Gozalbo, A. : 43
Gracia, M.del P. : 644
Graf, G. : 548
Graff, D. : 664
Graham, A.A. : 645
Grahame, J. : 461, 646, 1141
Grainger, J.N.R. : 647
Granberg, K.E. : 648
Granéli, W. : 649
Graney, R.L. : 614
Grange, K.R. : 650
Gransberg, M. : 230
Grass, G. : 522
Grasso, S. : 651

Gray, J.S. : 652
Green, B.W. : 1691
Green, J. : 653, 1131
Greenwood, J.G. : 897
Greenwood, P.G. : 654
Greenwood, P.J. : 11
Greenwood-Smith, R. : 1435
Gregor, D. : 1192
Gregor, D.J. : 655
Gregory, S.V. : 75
Greig, J. : 364
Gremigni, V. : 656
Grenz, C. : 117, 657
Gribbin, S.D. : 658
Griffith, M.B. : 659
Griffiths, R.W. : 660, 661
Grillas, P. : 662
Grimm, M.P. : 663, 1126, 1742, 1743, 1744
Grimmelikhuijzen, C.J.P. : 664
Grobbelaar, J.U. : 665, 666
Groeger, A.W. : 667
Grönlund, E. : 668
Grooms, T. : 1623
Groot, C.J.de : 669
Grossman, G.D. : 503
Grzybkowska, M. : 670
Gschloessl, T. : 1807
Guerrero, R. : 598
Guery, L. : 425
Guest, W.C. : 671
Guida, G. : 1680
Guilizzoni, P. : 581
Guiral, D. : 672, 673
Guisande, C. : 674
Gulati, R.D. : 474, 675, 676, 677, 678, 679, 912, 957, 1287, 1742, 1743, 1744, 1751, 1752, 1753, 1755, 1757
Gullardo, T. : 680
Guma'a, S.A. : 695
Gunasekaran, S. : 81, 82
Gunatilaka, A. : 681
Gündüz, E. : 682
Gunn, A.M. : 683
Gupta, A. : 684
Gustafson-Greenwood, K.I. : 685
Guti, G. : 686
Gutierrez-Valdivia, A. : 1076
Gyllenberg, G. : 940

**H**

Haag, W.R. : 687
Haan, M.W. de : 91
Haberyan, K.A. : 688
Hadas, O. : 689
Haffner, G.D. : 690
Hagiwara, A. : 691
Haines, B.L. : 1371
Haines, H.H. : 692
Håkanson, L. : 50, 497, 538, 693, 1240, 1801
Håkansson, H. : 580
Hakkari, L. : 88, 694
Halim, A.I.A. : 695
Hall, H.J. : 1249
Hall, III, M.A. : 721
Hall, Jr., L.W. : 533
Hall, K.J. : 696, 1808
Hall, R. : 1637
Hall, R.J. : 1462
Haller, M. : 1526
Halvorsen, G. : 479
Hambrook, J.A. : 697
Hamburger, K. : 698
Hamdy, Y.S. : 878
Hamilton, P.B. : 699
Hamilton-Taylor, J. : 1167
Hammar, T. : 1487, 1488
Hammen, H. van der : 1599
Hammer, M.L. : 700, 701
Hammer, U.T. : 702
Hammerly, J. : 703, 982, 1349
Hammerly, J.A. : 1040
Hanaoka, K. : 704
Hanazato, T. : 705, 706, 707, 708, 809
Haney, J.F. : 549
Hangström, Å. : 1564
Hanisak, M.D. : 709, 710
Hankins, S.D. : 711
Hann, B.J. : 712
Hanna, N.S. : 713, 714
Hansen, U. : 715
Hanson, K.L. : 716
Hanson, M.A. : 717
Hanssens, O. : 425
Harbison, G.R. : 968
Haren, R.J.F. van : 718
Harger, B.W.W. : 1129
Haritonov, A.Y. : 453
Harper, D. : 719
Harper, P.P. : 720
Harrel, R.C. : 721
Harris, J.H. : 722
Harris, L.G. : 723
Harrison, J.W. : 1637
Hart, B.T. : 125, 724, 725, 726, 1577
Hart, D.R. : 248
Hart, R.C. : 727
Hartmann, H.J. : 728
Hartmann, U. : 1807
Hartog, C. den/Hoff, T. van't : 1766
Hartwick, R.F. : 729, 730
Harvey, D.T. : 1623
Harvey, H.H. : 1880
Harvey, M. : 1776
Häsänen, E. : 1053
Hatton, J.C. : 731
Hauser, J. : 732
Havens, K.E. : 733, 734
Hawkins, C.P. : 75
Hawkins, S.J. : 802, 1251
Haworth, E.Y. : 735
Hayashi, H. : 706, 809
Hayes, C.R. : 1399
He, X. : 736
Heads, M.J. : 302
Healy, B. : 737
Heathwaite, A.L. : 738, 1261
Heckl, H. : 990
Hedges, R.E.M. : 506
Hegeman, W.J.M. : 900
Hehre, E.J. : 553
Heikkilä, R. : 739
Heit, M. : 860
Hellström, T. : 132, 133, 740
Helminen, H. : 741
Hendelberg, J. : 742
Henderson, P.A. : 1797
Henebry, M.S. : 743
Henocq, V. : 128
Henry, V. : 744
Henshall-Howard, M-P. : 228
Heral, M. : 418

Herat, K.S.M. : 1560
Herbst, D.B. : 745
Herbst, G.N. : 406
Herdendorf, C.E. : 189
Hergenrader, G.L. : 1724
Hermin, M.-N. : 657
Herrera, M.A. : 9
Herring, P.J. : 746
Hersh, C.M. : 533
Hershey, A.E. : 643, 716, 755, 758, 905, 1109, 1110, 1133, 1257
Herzig, A. : 432, 747, 748
Hes, U.M. van : 931
Hessen, D.O. : 501, 749, 750, 751
Heusel, R.E. : 1536
Heuts, P.G.M. : 1742
Hick, P.E. : 92
Hickey, C. : 1698
Hickey, C.W. : 389, 1373
Hickie, B.E. : 965
Hilal, M. : 953
Hildrew, A.G. : 960
Hill, A.R. : 752
Hill, B.H. : 753, 754
Hill, C.M. : 62
Hill, T. : 1319
Hill, V. : 92
Hiltner, A.L. : 755
Hilton, C. : 112
Hilton, J. : 756
Hino, A. : 691
Hino, S. : 757
Hinterleinter-Anderson, D. : 758
Hinton, G.C.F. : 1402
Hirayama, K. : 759
Hirvonen, A. : 741
Ho, Y.B. : 760
Hobaek, A. : 761
Hobbie, J.E. : 762, 1257, 1329
Hockey, H.P. : 711
Hoff, T.van 't : 1766
Hofmann, D.K. : 763
Hofmann, W. : 764, 765
Hofstra, J.J. : 766
Hofstraat, J.W. : 1322
Holding, A.J. : 340
Holen, D.A. : 767
Hollett, L. : 1462
Holley, M.C. : 768
Hollowday, E.D. : 769
Holmes, P.J. : 1021
Holopainen, A-L. : 770
Holopainen, I.J. : 771
Holsinger, J.R. : 772
Holt, P.C. : 773
Holzmann, R. : 774
Hommersand, M.X. : 557
Hong, F. : 1679
Hontoria, F. : 43, 1225
Hoogenboezem, W. : 1775
Hoogveld, H. : 956
Hootsmans, M.J.M. : 1769
Hori, H. : 775
Hori, I. : 776
Hori, K. : 777
Horiuchi, S. : 1676
Horn, W. : 778
Horne, P.A. : 779
Horppila, J. : 780, 781, 887
Hortle, K. : 724
Hoshina, T. : 782
Hoshino, K. : 783
Hosomi, M. : 708
Hosper, S.H. : 784, 1126
Hotchin, D.M. : 125
Hough, R.A. : 785
Hounslow, A. : 639
House, W.A. : 786
Hovenkamp-Obbema, I.R.M. : 787
Howa, H. : 1627
Howell, E.T. : 554
Huang, L.J. : 511
Huang, P.M. : 1419
Hubbard, J.G. : 308
Hubert, W.A. : 788, 1417
Hudec, I. : 789, 790
Hughes, R.G. : 791, 792
Hughes, R.M. : 1262
Hujer, A. : 984
Hulbert, S.H. : 1626
Hullar, M.A. : 1257
Hulscher, Th.E.M. ten : 793
Humes, A.G. : 794
Hunt, D.T.E. : 683
Hurley, K.C. : 473
Huryn,, A.D. : 1798
Hussain, S.A. : 1122
Hussey, C.G. : 769
Hustler, K. : 795
Hutchinson, T.H. : 796
Huttula, T. : 797
Huttunen, P. : 770, 1576
Huys, R. : 798
Hyatt, K.D. : 341
Hyde, K.D. : 799

I

Ibelings, B.W. : 932
Iberite, M. : 31
Ifune, E. : 1154
Ignat, G. : 1738
Igual, J. : 644
Ihnat, J. : 1338
Ilmavirta, V. : 800
Imbert, J.B. : 801
Immordino, F. : 528
Imrie, D.W. : 802
Inoue, T. : 1570
Irons III, J.G. : 803
Irvine, K. : 804, 1324
Iscandri, N.B. : 805
Ishida, S. : 806, 1570, 1695
Ishii, S. : 807
Ishimaru, S.-i. : 1678
Istavánovics, V. : 1687, 1688
Istvanovics, V. : 1341
Ito, K. : 777
Iwakuma, T. : 706, 808, 809
Izhboldina, L.A. : 922

J

Jaakkola, T. : 865
Jaccarini, V. : 1253
Jachner, A. : 810
Jackelman, J.J. : 811
Jackson, B.R. : 1435
Jackson, J.M. : 812
Jacobs, D.M.L.H.A. : 13
Jacobs, J. : 462
Jacobsen, B.A. : 813

Jacobson, G. : 63
Jagsch, A. : 432, 433
Jagtman, E. : 784, 814
Jakher, G.R. : 815
James, B.L. : 101
James, C.M. : 816
James, D.E. : 817
James, K. : 724
James, M. : 1488
James, M.R. : 549
James, R.T. : 818, 819
James, W.F. : 820
Janicki, A. : 821
Janse, J.H. : 822, 1754
Janssen, H.H. : 823, 1265
Janssen-Mommen, J.P.M. : 831
Janssens de Bisthoven, L.G. : 824
Jansson, M. : 547
Jarman, N.G. : 49
Jarms, G. : 825
Jarry, V. : 1591
Jarvis, A.C. : 1441
Jassby, A.D. : 826
Jaume, D. : 38, 395, 827
Javed, W. : 828
Jazdzewski, K. : 829
Jeet, S. : 1579
Jeffree, R.A. : 830
Jeffrey, W.H. : 1309
Jellison, R. : 379
Jenner, H.A. : 831, 923
Jensen, A. : 1271
Jensen, H.J. : 835, 1430
Jensen, H.S. : 47, 832
Jensen, J.P. : 834, 835
Jensen, P. : 833
Jeppesen, E. : 832, 834, 835, 836, 927, 1617, 1618, 1619
Jespersen, A.-M. : 1063
Jessup, R.E. : 1393
Jiajun, L. : 1466
Jiang, Z.D. : 608
Jiménez, C. : 837
Joffe, B.I. : 838
Johannes, M.R.S. : 1120
Johannesson, B. : 839, 840
Johannesson, K. : 839, 840, 841, 1664
Johansson, A. : 842, 843
Johansson, F. : 844
Johns, M.R. : 1684
Johnson, A.S. : 1543, 1544
Johnson, C.R. : 289, 290
Johnson, F.G. : 1402
Johnson, S. : 792
Johnston, E.P. : 845
Jondelius, U. : 846
Jones, A.R. : 847
Jones, D.M. : 506
Jones, D.S. : 1448
Jones, J.R. : 848
Jones, M.J. : 725
Jones, R. : 851
Jones, R.I. : 849, 850
Jones, T.C. : 852
Jonge, V.N. de : 408, 853
Jorgensen, S.E. : 854
Joseph, P.S. : 855
Juanes, J.A. : 856
Juget, J. : 857, 1432
Juhász-Nagy, P. : 858, 1614
Julià, R. : 45, 330
Junior, O.N. : 859

**K**

Kada, J. : 860
Kagawa, H. : 861
Kahl, J.S. : 1250
Kairesalo, T. : 780, 781, 862, 887
Kaise, T. : 704
Kaisin, F.J. : 198
Kajiwara, T. : 568
Kakui, Y. : 1727
Kal, B.F.M. : 487
Kalabushkin, B.A. : 1874
Kalff, J. : 443
Kalinowski, S. : 1883
Kamp-Nielsen, L. : 863
Kankaala, P. : 72, 1487, 1488
Kannan, L. : 864
Kannupandi, T. : 926
Kansanen, P.H. : 865, 866, 867
Kaplan, B. : 143
Kapraun, D.F. : 560, 868, 869, 870
Karamanlidis, G. : 1
Karjalainen, J. : 871
Karlson, R.H. : 872, 873
Karouna, N.K. : 874
Kasigwa, P.F. : 875
Kaster, J.L. : 876
Kastritsis, C. : 2
Kaushik, N.K. : 168
Kauss, P.B. : 248, 877, 878
Kautsky, N. : 996
Kautsky, U. : 996
Kaveriappa, K.M. : 287
Kawaguti, S. : 1087
Kawai, A. : 1030
Kawakatsu, M. : 879, 880, 1268, 1683
Kawashima, Y, : 881
Kayama, M. : 64
Kazancl, N. : 882
Keen, D.H. : 550
Keizer, P. : 883
Kelley, C.A. : 1522
Kelly, L.A. : 884
Kelso, J.R.M. : 1562
Kem, W. : 1283
Kempe, S. : 885
Kenaga, D. : 1054
Kennelly, S.J. : 1733
Kennelly, S.S. : 1587
Kerekes, J.J. : 886
Kestemont, P. : 1160
Keto, J. : 887
Ketola, M. : 888, 910
Kettunen, J. : 889
Khalil, M.T. : 890, 891
Kiden, P. : 412
Kifle, D. : 892
Kikuchi, E. : 893
Kikuchi, T. : 57
Kilham, P. : 894, 895
Kim, B. : 929
King, C.E. : 896, 1885
King, C.R. : 897
King, R.H. : 898
King, R.J. : 1463
Kinghts, B.C. : 1528
Kingston, J.C. : 1344
Kipphut, G.W. : 350, 899, 904, 1257, 1662

Kirkwood, R. : 494
Kiss, E. : 1017
Kiss, K.T. : 10, 200
Kitchell, J.F. : 1760
Klages, D. : 1533
Klamer, J.C. : 900
Klapwijk, S.P. : 901, 902
Klein Breteler, J.P.G. : 1743
Kleiven, E. : 1000
Klemer, A. : 903
Klepper, O. : 1530
Kling, G.W. : 904, 905
Klink, A. : 906
Kloet, W.A.de : 1434
Knacker, Th. : 1452
Knauth, H.-D. : 1533
Knight, A.J. : 1664, 1810
Knight, A.W. : 1072
Knoester, M. : 1530
Knowlton, M.E. : 848
Koetsier, P. : 907, 908
Koh, C.H. : 909
Koivisto, S. : 910
Koizumi, O. : 664
Kok, A. : 460
Kok, D.J. : 1542
Koksvik, J.I. : 1007
Koncsos, L. : 1671
Koningh, M.C.J.de : 187
Kononen, K. : 1581
Kontek, B. : 829
Kop, A.J. : 460
Kores, H.W. : 911
Kornijów, R. : 912, 1377
Korovchinsky, N.M. : 913, 914, 915, 916
Korstad, J. : 917, 918
Kortmulder, K. : 71
Koshida, Y. : 1676
Koste, W. : 299, 748, 919, 920, 1566
Kostenko, A.G. : 1049
Kot, H. : 1636
Koul, V.K. : 921
Kowalczyk, C. : 1377
Kozhova, O.M. : 922
Kramer, D.L. : 291
Kramer, K.J.M. : 923
Kramer, P.R.G. : 822
Kranabetter, J. : 702
Krantzberg, G. : 924
Kriet, K. : 925, 1329
Krishnan, T. : 926
Krishnappan, B.G. : 1275
Kristensen, P. : 832, 834, 835, 836, 927, 1617, 1618, 1619
Krogstad, T. : 928
Kromkamp, J. : 631, 929
Kroon, B.M.A. : 666, 930, 931, 932
Kruger, A.J. : 1542
Kruzynski, G.M. : 172
Krylov, P.I. : 933
Ksander, G.G. : 1631
Kubota, S. : 934, 1221, 1872
Kuchiiwa, S. : 935
Kuchiiwa, T. : 935
Kuczynski, D. : 936
Kudhongania, A.W. : 937
Kudoh, M. : 938
Kulmala, S. : 865
Kumagai, M. : 1727
Kunii, H. : 939
Kunkel, D.D. : 728
Kuosa, H. : 940
Kurata, A. : 941
Kurihara, Y. : 893
Kurz, E. : 942
Kutikova, L.A. : 1064
Kutka, F.J. : 943
Kuuppo-Leinikki, P. : 944
Kwan, K.K. : 459
Kwan, M.K.H. : 1602

**L**

Labollita, H. : 1059
Lacerda, L.D. : 945
Lach, A. : 1385
Ladle, M. : 946
Ladle, R.J. : 946
Lafond, M. : 947
Lafontaine, N.R. : 1120
Lahaye, M. : 948
Lahti, E. : 949
Lair, N. : 950, 951, 952, 953, 954
Lake, P.S. : 207, 1666
Lamberti, G.A. : 140
Lammens, E.H.R.R. : 955, 956, 957, 1126, 1751, 1775
Lammers, W.T. : 958
Lampert, W. : 959
Lancaster, H.F. : 441
Lancaster, J. : 960
Landau, R. : 961
Lanfranchi, A. : 962
Lanfranco, S. : 963
Lang, H. : 1697
Langeland, A. : 479, 964
Lanno, R.P. : 965
Lannou, A.-M. : 418
Lanzavecchia, G. : 470, 471, 966, 1739
Lappalainen, A. : 1387
Larson, G.L. : 1862
Larson, L.J. : 967
Larson, R.J. : 968
Larsson, P. : 969
Lasso, C. : 1320
Latasa, M. : 138, 932, 970, 1773
Lathrop, R.C. : 971
Laval-Peuto, M. : 1564
Lavandier, P. : 972
Lavens, P. : 354
Lawn, I.D. : 973, 1112
Lawson, D.L. : 1134
Laybourn-Parry, J. : 974, 975
Lazim, M.N. : 976
Leach, J.H. : 977
Lean, D.R.S. : 1120
Learner, M.A. : 976
Lebo, M.E. : 978
Leenaers, H. : 979
Leewis, R.J. : 980
Leff, L.G. : 981
Léger, P. : 1
Legniti, A. : 1428
Leguizamon, M. : 703, 982
Leguizamon, M.S. : 1040
Leh, M.U. : 1508
Lehmacher, C. : 983
Lehtovaara, A. : 72, 862, 1489
Leite, F.P.P. : 1795
Lent, R.M. : 1017
Lepistö, L. : 1582
Leppard, G.G. : 1193

Lesh-Laurie, G.E. : 984
Leslie, J.K. : 985, 986
Lester, R.J.G. : 852
Levanon, D. : 406
Levasseur, E.D. : 514
Leveau, M. : 987, 1003
Leventer, H. : 988
Levitt, G.J. : 49
Levy, I. : 989
Lewis, A.G. : 990
Lewis, J.B. : 991
Lewis, R.E. : 992
Libera, V. : 581
Licheng, Z. : 1565
Lick, J. : 993
Lick, W. : 993, 1886
Liebezeit, G. : 1841
Liebig, J.R. : 1758
Lieder, U. : 994
Liehu, A. : 1491
Ligtvoet, W. : 1155
Lijklema, L. : 179, 1746
Likens, G.E. : 995
Lindblad, C. : 996
Lindegaard, C. : 997, 1430
Lindem, T. : 1802
Lindholm, T. : 490
Lindroos, P. : 998
Lindstrom, S.C. : 999
Linkins, A.E. : 1580
Linlokken, A. : 1000
Lishman, J.P. : 735, 756
Litt, A.H. : 468
Litterick, M.R. : 89
Littler, D.S. : 710, 1001
Littler, M.M. : 710, 1001
Lluisma, A.O. : 1725, 1726
Lobon-Cervia, J. : 1002
Lochet, F. : 599, 987, 1003
Lockhart, W.L. : 1004
Lodge, D.M. : 736
Lõffler, H. : 1005
Logan, C. : 1006
Lokken, P. : 615
Lombardo, R.J. : 619
Long, D.T. : 1017
Long, W.F. : 1610
Longbotham, E. : 1120
Lonsberry, B. : 712
Lonvik, K. : 1007
Lopez, H.L. : 1132
López, P. : 1008
Los, F.J. : 91
Lotter, A.F. : 1009
Lovstad, O. : 174, 928, 1010
Lowe, R.L. : 273, 1065
Loya, Y. : 1436, 1572
Lubián, L.M. : 1183
Lubzens, E. : 1011
Lucchesi, P. : 1496
Lucena, J. : 589
Lucena, J.R. : 331
Luecke, C. : 1760
Lüers, F. : 793
Lugthart, G.J. : 1798, 1799
Lundin, L. : 1012
Luoma, S.N. : 1013
Luoma, T.H. : 1582
Luque, A. : 1438
Lutalo-Bosa, A.J. : 245
Lyche, A. : 1014
Lyngby, J.E. : 1015
Lyon, J.G. : 1844
Lyons, J. : 1016
Lyons, W.B. : 63, 1017

M

Maas, S. : 454, 1018
Maccubbin, A.E. : 1019
Machácek, J. : 1020
MacIntyre, R.J. : 722
Mackay, D.W. : 1021
Mackey, A.P. : 1022
Mackie, G.L. : 1023
Mackie, G.O. : 1024, 1025
Macler, B.A. : 1026
Madhusoodanan Nair, K.C. : 71
Madoni, P. : 1027
Madruga, M.J. : 1028
Madsen, H. : 1029
Madsen, T.V. : 1063
Maeda, H. : 1030
Maeda, T. : 759
Maeda-Martinez, A.M. : 1031, 1032
Maestrini, S.Y. : 93
Magadza, C.H.D. : 1033
Maggs, C.A. : 1034
Magnuson, J.J. : 1760
Maguire, R.J. : 1275
Mahapatra, S. : 12
Mahika, C.G. : 875
Maier, G. : 1035, 1036, 1037, 1038, 1039
Maine, M.A. : 703, 982, 1040, 1349
Maitho, T.E. : 615
Majid, A.Abd. : 1506
Maki, J.S. : 1041
Makino, N. : 1571
Malagón, M.L. : 9
Malczyk, J.M. : 1220
Malicky, H. : 1042
Malins, D.C. : 1043
Malmgren, L. : 1044
Malmqvist, B. : 34, 1045
Maltby, L. : 1046, 1226, 1540
Malthus, T.J. : 409, 1047
Maly, E.J. : 1048
Mamaeva, T.I. : 1621
Mamkaev, Yu.V. : 1049
Manca, M. : 145
Manconi, R. : 1050
Mancuso, C.A. : 556
Mangin, K.L. : 1051
Manley, N.L. : 1251
Mann, R.H.K. : 1052
Manninen, P.K.G. : 1053
Manny, B.A. : 469, 1054, 1055, 1239, 1524
Mansfield, P.J. : 1157
Maran, S. : 311
Marchese, M. : 1056
Marciniak, B. : 1057
Marcogliese, D.J. : 1058
Margalit, J. : 99
Margaritora, F.G. : 524
Maria de Brito Medeiros, T. : 458
Maria de Sena, A. : 458
Mariazzi, A. : 1059
Mariazzi, A.A. : 1060, 1061
Marincek, M. : 1062, 1334
Mariotti, G. : 1368
Markager, S. : 1063

Markevich, G.I. : 1064
Marks, J.C. : 1065
Marmonier, P. : 435, 1066
Marples, T.G. : 1237
Marques, Jr., A.N. : 521
Marquet, P. : 149
Marsden, I.D. : 1067
Marsh, R.E. : 847
Marshall, B.E. : 795
Marten, M. : 1068, 1069
Martens, A. : 1070
Martens, K. : 1071
Martin, J.C. : 1072
Martin, P.J.S. : 1073
Martin, V.J. : 1074
Martin-Jézéquel, V. : 1075
Martinet, F. : 1432
Martinez, C.C. : 1093
Martínez-Jerónimo, F. : 1076
Martino, P. : 98
Martinotti, W. : 311
Maruyama, I. : 759
Marzari, R. : 611
Mason, C.F. : 1399
Massana, R. : 598
Masson, B. : 1077
Masundire, H.M. : 1078, 1079
Matessi, C. : 1590
Mathieu, J. : 1080
Mathooko, J.M. : 1081
Matsuda, R. : 573
Matsuhiro, B. : 1082, 1083
Matsumoto, G.I. : 1084
Matsumoto, T. : 1661
Matsumura-Tundisi, T. : 1085, 1086, 1444
Matsuno, A. : 1087
Matthews, M. : 1088, 1089
Matthiessen, P. : 1090
Matulewicz, M.C. : 692
Matveev, V.F. : 1092, 1093
Matveeva, L.K. : 1091
Matvienko, B. : 1831
Matzow, D. : 1000
Mavuti, K.M. : 895, 1081, 1094, 1095
Mawatari, S. F. : 1221
May, V. : 1096
Mayewski, P.A. : 1017
Mayfield, C.I. : 380, 1195, 1196, 1198, 1557
Maym, L. : 1097
Mazé, J. : 1162
Mazzoni, R. : 525
Mbahinzireki, G. : 1098
McAllister, T.L. : 1099
McAuley, P.J. : 1100
McAurthur, J.V. : 981
McCahon, C.P. : 1101
McCarthy, L.H. : 1195, 1196, 1197
McCarthy, T.K. : 1405, 1729
McCarty, L.S. : 1102
McCommas, S.A. : 1103
McCormick, P.V. : 253, 1104, 1105, 1106
McCrea, K.D. : 1108
McCreadie, J.W. : 1107
McCrohan, C.R. : 802
McDiffett, W.F. : 1108
McDonald, M.E. : 369, 716, 1109, 1110, 1133
McElravy, E.P. : 1111
McFarlane, I.D. : 664, 973, 1112
McGuire, J.A. : 121
McHugh, D.J. : 1113
McKee, P.M. : 248
McKelvie, I.D. : 726
McKenzie, J.C. : 1494
Mclachlan, A.J. : 812
Mclachlan, J. : 1306
McLachlan, J.L. : 1114
McLean, D. : 1115
McLusky, D.S. : 1116
McMahon, A. : 724
McMahon, R.F. : 1117
McMeekin, T.A. : 556
McNamara, J.C. : 1118
McNaught, D.C. : 1119
McNeely, R. : 690
McQueen, D.J. : 1120
Mead, R.W. : 1121
Meadows, P.S. : 1122
Meehan, W.R. : 242
Meer, J. van der : 718
Meer, J.P. van der : 1123, 1124
Meier, E.P. : 667
Meijer, G.J. : 1766
Meijer, M-L. : 1126
Meijer, M.-L. : 957, 1125
Meijering, M.P.D. : 1127
Meili, M. : 1128
Melack, J.M. : 379, 1574
Melo, R.A. : 1129
Menéndez, M. : 331
Mengestou, S. : 520, 653, 1130, 1131
Menni, R.C. : 1132
Menozzi, P. : 86
Meredith, C. : 724
Meriluoto, J.A.O. : 490
Merrick, G.W. : 1133
Merritt, R.W. : 1134
Mertens, J. : 403, 452, 963, 1135, 1136, 1207, 1547
Metsälä, T.-R. : 1487, 1488
Metz, H. : 1137
Mhone, O.K. : 688
Michael, R.G. : 684
Migliore, L. : 1138
Mignuzzi, C. : 164
Migotto, A.E. : 1575
Mikschi, E. : 1139
Miliou, H. : 1140
Mill, P.J. : 461, 646, 1141
Miller, A.C. : 166
Miller, G.J. : 1285
Miller, M.C. : 904, 905, 1142, 1257
Miller, I.J. : 575
Millis, N.F. : 1144
Mills, C.A. : 1823
Mills, C.E. : 968
Milstein, A. : 1145
Minkoff, G. : 1011
Minshall, C.W. : 1426
Miquelarena, A.M. : 1132
Mirabdullaev, I.M. : 1146
Miracle, M.R. : 272, 495, 1147, 1554
Mishra, J.K. : 295
Mitchell, S.A. : 1148, 1149, 1150
Mityanina, I.F. : 584
Miura, A. : 1569
Miura, T. : 1151, 1679
Miyake, K. : 1153
Miyashita, S. : 1152
Miyazaki, T. : 1152, 1153
Miyazawa, K. : 777
Mizutani, A. : 1154

Mkumbo, O.C. : 1155
Modenutti, B.E. : 97
Moghaddam , M.F. : 608
Moghraby, A.E. : 219
Mohanraju, R. : 1156
Mol, G.A.J. : 793
Moll, R.A. : 1157
Moller, B. : 1257
Mollion, J. : 1158, 1142
Molloy, F.J. : 1159
Montes, C. : 98, 1495
Monti, A. : 164
Monti, C. : 191, 192
Montuelle, B. : 1160
Mooij, W.M. : 1775
Moore, A.M. : 220
Moore, P.G. : 1384, 1816
Moorehead, P.W. : 1803
Morales, R. : 1263
Morales-Baquero, R. : 275, 1161
Morand, P. : 1162
Moreau, J. : 1163
Moreira, J.C. : 610
Moreno-Amich, R. : 1164, 1165
Moreteau, J.-C. : 1708
Moretti, I. : 1368
Moretto, H.J.A. : 1166
Morfett, K. : 1167
Morgan, M.D. : 439
Morguí, J.A. : 1008, 1391, 1773
Moring, J.R. : 593, 685, 1168
Morita, M. : 156, 1169, 1170
Morri, C. : 326, 527
Morriconi, E.R. : 1171
Morrison, B.R.S. : 1172
Morrison, G. : 1818
Morrison, G.M.P. : 1173
Morrissy, N.M. : 1612
Mortensen, E. : 834, 835, 836, 1618
Moscrop, C. : 1261
Moser, G. : 1740
Moses, B.S. : 1174
Moss, A.G. : 1175
Moss, B. : 804, 1176, 1177, 1178
Moubayed, Z. : 1179, 1180
Mouguedet, G. : 297
Moulton, T.P. : 1181
Mourelatos, S. : 1182
Mourente, G. : 1183
Mousseau, T.A. : 1184
Moustaka-Gouni, M. : 1186
Moustake-Gouni, M. : 1185
Mouthon, J. : 1187
Mozley, S.C. : 369
Mueller, C.S. : 124
Muje, P. : 949
Mukiama, T.K. : 1214
Mulamoottil, G. : 601
Mulder, Jan : 1789
Mulder, T.B. : 1261
Mulholland, P.J. : 1188
Müller, J.P. : 835, 1430
Müller, R. : 1189
Mumford, Jr., T.F. : 1190
Mummert, J.R. : 441
Munawar, I.F. : 1193, 1194, 1195
Munawar, M. : 196, 380, 414, 655, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1557, 1634
Munda, I.M. : 1201, 1202
Mungoma, S. : 1203
Munkittrick, K.R. : 1204
Munro, K.A. : 1248
Münster, U. : 1205, 1206, 1487
Munuswamy, N. : 404, 451, 1135, 1136, 1207
Mur, L.R. : 666, 930, 931, 932, 1745
Mura, G. : 1208, 1209
Murakami, S. : 1218
Murana, E. : 1210
Murano, E. : 1680
Muraoka, K. : 572
Murat, M. : 425
Murayama, H. : 880
Murdoch, J.H. : 110
Murina, G.-V. : 1211
Murphy, B.R. : 1693
Murphy, K.J. : 1633
Murphy, T. : 1808
Murray, A. : 847
Muskó, I.B. : 1212, 1213
Mwangi, R.W. : 1214
Mwaura, F.B. : 1215
Mwebabaza-Ndawula, L. : 1216

**N**

Nagata, W.D. : 1217
Nagle, D.G. : 608
Nakanishi, H. : 1218
Nakasugi, O. : 40
Nakata, K. : 1219
Nalepa, T.F. : 1220
Namikawa, H. : 1221
Nance, J.M. : 1222
Naoki, Y. : 880
Narita, K. : 1661
Natarajan, R. : 1156
Nather Khan, I.S.A. : 1223
Nauwerck, A. : 1224, 1270
Navarro, J.C. : 43, 1225
Naylor, C. : 1226
Naylor, C.J. : 11
Necchi, Jr., O. : 1227
Negele, B.J. : 785
Negrisolo, P. : 279
Neiff, J.J. : 1228
Neill, W.E. : 144
Nelson, S.M. : 1229
Nelson, W.A. : 1521
Neto, A.I. : 553
Neumann-Leitao, S. : 1230
Neushul, M. : 1129, 1231
Neveux, J. : 1564
Nevissi, A.E. : 1232
Newman, R.M. : 1233
Newman, S. : 1234
Ngoile, M.A.K. : 1235
Ngoumbi-Nzouzi, J.-S. : 1538
Nguy, S. : 146
Nguyen, L. : 146
Ni-imura, F. : 1695
Niccolai, I. : 326, 527, 528
Nicholas, W.L. : 1236, 1237
Nicholls, T. : 1323
Nichols, P.D. : 1238
Nichols, S.J. : 469, 1055, 1239, 1524
Nicholson, G. : 125
Nicieza, A.G. : 214
Niederlehner, B.R. : 253
Niel, F.X. : 588
Niell, F.X. : 317, 318, 585, 589, 837, 1718
Nielsen, J.B. : 536

Niemelä, S.I. : 1581, 1582
Niemi, R.M. : 1582
Nienhuis, P.H. : 362, 1530
Nieuwland, G. : 460
Nikolaidis, G. : 1186
Nilssen, J.P. : 501
Nilsson, A. : 1240
Nilsson, A.N. : 843
Nishide, E. : 1241
Nishikawa, M. : 1511
Nishimura, Y. : 1570
Nishri, A. : 1242, 1243
Nisizawa, K. : 64, 1241, 1244
Nissenbaum, A. : 1243
Noce, T. : 1293
Noda, H. : 1244
Nogrady, T. : 1245
Nolan, P.J. : 59
Nolte, U. : 1246
North, W.J. : 817, 1247
Northcote, T.G. : 696, 1248, 1249, 1808
Norton, D.C. : 189
Norton, S.A. : 1250
Norton, T.A. : 1251
Norwood, W.P. : 1192, 1196, 1197
Notoya, M. : 1252
Ntiba, M.J. : 1253
Nummi, P. : 482
Nurminen, J. : 1205, 1206
Nwadiaro, C.S. : 1018, 1548
Nweze, N.O. : 173
Nyakageni, B. : 1163
Nyberg, P. : 407
Nygaard, G. : 1254
Nzioka, R.M. : 1255

O
O'Brien, W.J. : 905, 1109, 1256, 1257
O'Donnell, D. : 1729
O'Grady, K. : 1258
O'Keeffe, J.H. : 1298, 1299
O'Reilly, M.G. : 480
O'Sullivan, P.E. : 506, 738, 1259, 1260, 1261, 1402
Oberdorff, T. : 1262
Obioha, A. : 46
Obregon-Barboza, H. : 1032
Ocana, A. : 1263
Ochumba, P.B.O. : 1264
Odriozola, J.M. : 1183
Oenema, O. : 1789
Oeschger, R. : 823, 1265
Ogbonna, C.I.C. : 1266
Ogren, R.E. : 1267, 1268
Ogutu-Ohwayo, R. : 937
Ohnishi, K. : 783
Oki, I. : 1268, 1683
Olivari, G. : 238
Oliveira, E.C. de : 1480
Oliveira, M.C.de : 1269
Oliver, N.P. : 1323
Ollevier, F. : 824
Olofsson, H. : 1272
Olrik, K. : 834, 1270
Olsen, Y. : 917, 918, 1271
Olsson, H. : 1272
Olsson, I.U. : 1273
Olsson, K. : 476
Oluoch, A.O. : 1274
Olver, J. : 974, 975
Ong, J.-E. : 1732
Ongley, E.D. : 1275
Oohusa, T. : 64
Ooms-Wilms, A.L. : 678
Oosthuizen, J.H. : 1276
Opperhuizen, A. : 1532
Opuszynski, K. : 1277
Opute, F.I. : 1278
Orive, E. : 1279
Orlandi, C. : 164
Orlandi, M.J.L.G. : 104
Ormerod, S.J. : 1813
Orr, D. : 1102
Orrego, P. : 464
Ortal, R. : 406
Orth, D.J. : 1451
Orvos, D.R. : 1280
Osgood, M.P. : 1188
Osore, M.K.W. : 1281
Ostendorp, W. : 1282
Östman, C. : 1283
Oswood, M.W. : 803
Otten, J.H. : 630, 1284
Oulad Ali, H. : 954
Outridge, P.M. : 1285
Overbeck, J. : 1205, 1206
Ozburn, G.W. : 1102
Ozimek, T. : 1286, 1287

P
Paasivirta, L. : 866
Padisák, J. : 1288, 1414, 1614, 1788
Pagani, M. : 1289, 1421
Paganin, G. : 164
Pagano, M. : 599, 1478
Pagès, F. : 1290
Paggi, J.C. : 1291, 1292
Pagnotta, R. : 1293
Pahl-Wostl, C. : 1294
Pais-Madeira, C.M. : 1441
Pajunen, V.I. : 1295
Palmberg, I. : 1296
Palmer, A.R. : 1297
Palmer, C.G. : 1298
Palmer, R.W. : 1299
Palmisano, A.C. : 1300
Panampunnayil, S.U. : 1301
Pandian, G.T. : 115
Pandian, T.J. : 1492
Panebianco, C. : 651
Paoletti, A. : 1302
Paoletti, S. : 1210
Papina, T.S. : 1663
Paquet, M. : 1314
Paranagua, M.N. : 1230
Parashar, B.D. : 1303
Parejko, K. : 1304, 1305
Parker, B.C. : 1308
Parker, B.R. : 1522
Parker, M. : 223
Parker, T. : 1306
Parma, S. : 1755
Parparov, A.S. : 1307
Parson, M.J. : 1308
Parulekar, A.H. : 295
Pascoe, D. : 1101
Pascual, E. : 1882
Paszkowski, C.A. : 771
Paterson, M.J. : 554
Patrick, Jr., W.H. : 410
Pattee, E. : 208

Patwary, M.U. : 1124
Paul, J.H. : 1309
Pauli, H.-R. : 1310
Paulovits, G. : 170
Paulson, L.J. : 1609
Paulson, R.L. : 533
Paz, J.D. : 637
Păzold, G. : 715
Peckol, P. : 1311
Pedisák, J. : 1312
Pedrós-Alió, C. : 598
Peeters, J.C.H. : 1826
Peeters, W. : 1709
Peiffer, S. : 1641
Peirson, G. : 1325
Pejler, B. : 152, 153, 154, 1313
Pelamatti, R. : 1422
Pellerin-Massicotte, J. : 1314
Pelletier, E. : 1314
Pen, L.J. : 1315, 1316
Péna, G. : 1340
Penczak, T. : 1317, 1318, 1319, 1320
Penniman, C.A. : 1876
Pennington, W. : 1321
Pèpe, C. : 1538
Peperzak, L. : 1322
Pepper, V.A. : 1323
Perez-Llorens, J.L. : 589
Perrow, M.R. : 1324, 1325
Perry, J.A. : 113, 1233
Perry, S.A. : 659, 1326
Perry, W.B. : 1326
Pesendorfer, J. : 1473
Peters, F. : 598
Peters, R.H. : 21, 1327
Petersen, A. : 1328
Peterson, B.J. : 209, 925, 1329
Peterson, C.G. : 1330
Petkovski, S. : 1332
Petkovski, S.T. : 1331
Petridis, D. : 1333
Petrov, B. : 1062, 1334
Pettersson, A. : 1335
Pettersson, K. : 1336, 1341
Pettigrove, V. : 1337
Pettine, M. : 1293
Peuranen, S. : 1387
Phlips, E.J. : 1338
Piacqadio, A.M. : 1680
Picciafuoco, L. : 1458
Pickering, T.D. : 1339
Picot, B. : 1340
Pierson, D.C. : 1341
Pignalberi de Hassan, C. : 344
Pihl, L. : 1342
Pijanowska, J. : 1343
Pillsbury, R.W. : 1344
Pinder, L.C.V. : 1345
Pinel-Alloul, B. : 947
Pinkas, R. : 689
Pinochet, H. : 1891
Piorewicz, J. : 62, 1356
Pip, E. : 1346
Piquemal, F. : 384
Piraino, S. : 1283, 1347
Piriz, M.L. : 1348
Pisanty, S. : 1802
Pizarro, M.J. : 703, 982, 1040, 1349
Plana, F. : 330
Plante, R. : 117
Plante-Cuny, M.-R. : 117
Plickert, G. : 1350
Poi de Neiff, A. : 1228
Poirrier, M.A. : 1351
Poland, J.S. : 364
Polk, Ph. : 1673
Polne-Fuller, M. : 1352
Pont, D. : 1353
Pontin, R.M. : 1354
Ponyi, J.E. : 1688
Pop, M. : 1355
Popiolek, B. : 1378
Poplawaski, W.A. : 1356
Portnoy, J.W. : 1357
Postema, G. : 678, 1757
Potin, P. : 417, 1358
Pott, E. : 959
Potter, I.C. : 1315, 1316
Potts, W.T. : 1612
Potts, W.T.W. : 27
Powell, T.M. : 826
Poynter, M. : 1537
Põysä, H. : 482
Pozdnjakov, S.R. : 1663
Pozo, J. : 801, 1359
Prado, B. : 1891
Praetzel, G. : 197
Pratt, J.R. : 254, 1360
Prazáková, M. : 1361
Prejs, A. : 1362
Prejs, K. : 1362
Premazzi, G. : 1367
Prentice, I.C. : 1605
Pretus, J.LL. : 395
Prézelin, B.B. : 1363
Price, A.R.G. : 1364
Pringle, C.M. : 1365
Pringle, J.D. : 1366, 1561
Priscu, J.C. : 429, 430, 431
Pronzato, R. : 1050
Protogino, L.C. : 1132
Provini, A. : 582, 1367
Puccinelli, I. : 1368
Pucsko, R. : 1477
Puddu, A. : 1293
Pugh, K.B. : 136
Pugh, P.R. : 1369
Pulkkinen, K. : 1781
Purcell, J.E. : 1370
Putt, D.A. : 785
Pygott, J.R. : 1823

**Q**

Quaak, M. : 182
Qualls, R.G. : 1371
Queimaliños, C.P. : 97
Queirazza, G. : 311
Quigley, M.A. : 1372
Quinn, J.M. : 389, 1373
Quirós, R. : 1374

**R**

Raaphorst, W. van : 1375
Raat, A.J.P. : 1126, 1376, 1741
Radwan, S. : 1377, 1378
Rae, J.G. : 1379
Raffaelli, D. : 1380
Ragan, M.A. : 1381

Rahman, A. : 1382
Raillard, O. : 418
Raimbault, P. : 1383, 1564, 1588
Rainbow, P.S. : 1384, 1816
Rainuzzo, J.R. : 1271
Raitaniemi, J. : 1387
Raj, U. : 1676
Rajczy, M. : 1288
Rakoczi, L. : 132
Rakusa-Suszczewski, S. : 1385
Ramade, F. : 1708
Ramelow, G.J. : 124
Ramus, J. : 1311, 1386
Rang, M.C. : 979, 1531
Rankin, D.P. : 341
Rao, K.M. : 1303
Rao, P.S.C. : 1393
Rao, S.S. : 1275
Räsänen, L.A. : 1582
Rask, M. : 1387
Rasmussen, K. : 1388
Rasowo, J. : 1389
Rassoulzadegan, F. : 1564
Raubenheimer, C.M. : 1390
Raudkivi, A.J. : 58
Ray, S.N. : 1539
Raymond, N : 193
Real, M. : 1391
Reddemann, R. : 158
Reddy, K.R. : 1234, 1392, 1393
Reddy, Y.R. : 421, 1394, 1395, 1396, 1397, 1398
Redshaw, C.J. : 1021, 1399
Reed, E.B. : 1404
Reeders, H.H. : 1400, 1401
Rees, A.W.G. : 1402
Rees, S. : 974
Regev, Y. : 406
Reggiani, G. : 102
Reid, D.G. : 1403, 1690
Reid, J.W. : 1404
Reilly, P. : 1405
Reindl, S. : 1428
Reiter, D. : 1406
Remsen, C.C. : 1041
Remy, J.-M. : 419
Renaut, R.W. : 1407
Renberg, I. : 1838
Renman, G. : 1408
Renn, D.W. : 1409
Repert, D. : 1580
Resh, V.H. : 140, 1111
Reteuna, C. : 1410
Reuter, J.E. : 978
Reuter, M. : 998, 1411, 1412
Reynolds, C.S. : 1413, 1414, 1614
Reynolds, J.D. : 1088, 1089
Reynoldson, T.B. : 1415
Rezeq, T.A. : 816
Rhee, G.-Y. : 1416
Rhodes, C.L. : 978
Rhodes, H.A. : 788, 1417
Riaux-Gobin, C. : 1418
Ribas, M. : 1592
Ribeiro, E.A. : 1118
Ribo, J.M. : 1419
Ricci, C. : 1289, 1420, 1421
Ricci, N. : 1422
Ricci, S. : 1423, 1424
Rice, E.L. : 167
Richards, C. : 1426
Richardson, A.M.M. : 1425
Richardson, N. : 59
Rico, J.M. : 1427
Rieger, R. : 1428
Riegl, B. : 1429
Riemann, B. : 835, 1430
Riemann-Zürneck, K. : 1431
Riera, P. : 1432
Rietzler, A.C. : 1085, 1086
Rifkin, J.F. : 486
Rijkeboer, M. : 630, 631, 632, 633, 929, 1284, 1433, 1434
Riley, S.J. : 1435
Rimmer, D.M. : 270
Rincon, P.A. : 1002
Ringelberg, J. : 1745, 1753
Rinkevich, B. : 1436
Rioux, H. : 1776
Rip, W.J. : 91
Risto, B. : 347
Riutort, M. : 1592
Rivas, O. : 496
Rivera-Carro, H. : 1437
Rivier, A. : 1564
Rizzo, R. : 1210
Robaina, R.R. : 1438
Robarts, R.D. : 1439, 1440, 1441
Robert, S. : 425
Roberts, N. : 109, 386
Roberts, N.J. : 556
Roberts, R.D. : 1399
Robinson, R.M. : 1442
Robledo, D.R. : 590
Rocha, A.J.A. : 1640
Rocha, C.E.F. da : 1443
Rocha, O. : 1086, 1444
Rochas, C. : 948
Roche, K. : 1445, 1446
Rockwood, J.P. : 1447, 1448
Rodic, Lj. : 1772
Rodriguez, P. : 1449, 1450
Roell, M.J. : 1451
Roembke, J. : 1452
Roff, J.C. : 1456
Rogerson, A. : 975, 1352
Rohde, K. : 1453
Roijackers, R. : 1740
Rojo, C. : 1454
Romero, J. : 1773
Romero, R. : 1455
Rönkkö, J. : 1576
Rooth, J. : 474, 677
Rosenfeld, J. : 1456
Rosillon, D. : 1457
Ross, L.G. : 1717
Ross, P. : 947, 1591
Rossi, L. : 1458
Rossi, V. : 86, 524
Rosso, G. : 102
Rotmann, K.W.G. : 1459
Rottini Sandrini, L. : 77, 78, 1460
Roux, M. : 1461, 1555
Rowe, L. : 144, 1462
Roy, Y. : 1698
Royle, R.N. : 1463
Rublee, P.A. : 1464
Rudstam, L.G. : 1820
Rueness, J. : 1465
Ruffoni, T. : 621
Ruggiu, D. : 145

Rui, L. : 1466
Ruihua, L. : 220
Rull, V. : 1467
Rushforth, S.R. : 1468, 1780
Russo, A.R. : 1469, 1470
Ruttner-Kolisko, A. : 1471
Ruyter van Steveninck, E.D.de : 13
Ryan, P.A. : 389, 1373
Rybak, I. : 1472
Rybak, M. : 1472
Ryder, R.A. : 1473
Ryland, J.S. : 1474
Ryther, J.H. : 169

S

Sa-a, P. : 80
Sabater, F. : 1391
Sabater, S. : 1475
Sacchi, C.F. : 1786
Sachse, R. : 715
Sadek, S.E. : 170
Sadiq, M. : 1476
Sager, M. : 1477
Saha, R.K. : 160
Saint-Jean, L. : 1478
Sainte-Marie, B. : 1479
Saita, R.M. : 1480
Saito, M. : 570
Sakurai, A. : 1570
Sakurai, N. : 569
Sakurai, T. : 64, 807, 1481
Sala-Genoher, L. : 592
Salánki, J. : 1482
Salen-Picard, C. : 117
Salinas, J.M. : 1483
Saliot, A. : 1538
Sallenave, R.M. : 1484
Salleo, A. : 1485
Salman, S.D. : 1486
Salmi, J. : 1295
Salomao, L.C. : 1118
Salomé, B.Z. : 1753
Salonen, K. : 72, 944, 1487, 1488, 1489, 1730
Salvenmoser, W. : 1428
Sánchez, E. : 1655, 1787
Sánchez, E.L. : 1490
Sanchez-Castillo, P. : 274
Sandman, O. : 1491
Sandved, K. : 111
Sanford, J.A. : 1404
Sang, Q. : 612
Sankarperumal, G. : 1492
Sanni, S. : 1493
Sanoamuang, L.-o. : 1494
Santamarí, L. : 1495
Santangelo, G. : 1496
Santelices, B. : 1497, 1498, 1499, 1500, 1501, 1763
Santer, S.-J. : 212
Santinelli, N. : 496
Santschi, P.H. : 1502
Särkkä, J. : 1503, 1504
Sarmani, S. : 1506
Sarmani, S.B. : 1505
Sarvala, J. : 741, 1507
Sasaki, K. : 1570
Sasekumar, A. : 1508
Sassaman, C. : 1509
Sastre, V. : 496
Satake, K. : 1510, 1511
Satow, Y. : 775
Saukkonen, P. : 862
Saunders-Davis, A.P. : 1512
Saur, M. : 1513
Say, P.J. : 1514
Scagel, R.F. : 1515
Scari, G. : 1739
Scarlet, G. : 722
Schakau, B. : 1516
Schanz, F. : 929, 983
Schaumann, K. : 1517
Scheffer, M. : 1518
Schembri, P. : 963
Schertenleib, U. : 1519
Schiel, D.R. : 1520, 1521
Schiemer, F. : 713, 714
Schimozawa, A. : 23
Schindler, D.W. : 1522
Schiver, D. : 703
Schlag, G. : 303
Schlage, W.K. : 1526
Schlichter, D. : 1523
Schlichting, B.J. von : 1542
Schloesser, D.W. : 469, 559, 1055, 1239, 1524
Schmale, J.C. : 187
Schmid, R.M. : 1525
Schmid, V. : 942, 1526
Schmidt, G.H. : 1527
Schmidt-Dallmier, M.J. : 1528
Schminke, H.K. : 1529
Schneider, D.W. : 1016
Schnetter, R. : 158
Schober, U. : 959
Schofield, O. : 631
Scholten, H. : 1530
Scholten, M.J.M. : 1746
Schorreels, S. : 455
Schouten, C.J. : 979, 1531
Schram, D. : 1759
Schrap, S.M. : 1532
Schroeder, F. : 1533
Schuldt, J.A. : 758
Schulz, E. : 1534
Schurr, G.A. : 1799
Schwartz, S.S. : 1535
Schweizer, A. : 1536
Scott, D. : 1537
Scribe, P. : 1538
Scruton, D.A. : 1472, 1539
Seager, J. : 1540
Seaman, M.T. : 1541, 1542
Searles, R.B. : 869
Sebens, K.P. : 1543, 1544
Sed'a, J. : 1545
Seesock, W.C. : 121, 1815
Segers, H. : 1546, 1547, 1548
Sehgal, H.S. : 1549
Sekine, M. : 1218
Sekkal, M. : 1158
Selvam, V. : 81, 82, 1550
Semesi, A.K. : 1551
Semple, R.E. : 1366
Seno, M. : 278
Sephton, L.M. : 1439
Seppälä, J. : 867
Sergeev, V. : 1552
Serra, M. : 272, 495, 1147, 1554
Serrano, L. : 674, 1553, 1554
Serruya, S. : 638
Servais, P. : 162
Servant, M. : 1461

Servant-Vildary, S. : 1461, 1555
Serve, L. : 293
Service, K. S. : 1556
Setti, M. : 528
Severn, S.R.T. : 1557
Severn, S.T. : 1198
Seyhan, E. : 409
Shacklock, P.F. : 1437
Shalash, I. : 855
Shapiro, J. : 1558
Sharma, B,K. : 1559
Sharp, B.B. : 1560
Sharp, G.J. : 1561
Shaughnessy, F. : 52
Shaw, M.A. : 1562
Shaw, P.W. : 1563
Sheard, J.S. : 702
Sheath, R.G. : 697, 1782
Sheldon, R.W. : 1564
Shelley, A. : 786
Shen, Z. : 1565
Sherman, S.G. : 870
Sherr, B. : 1564
Sherr, E. : 1564
Shiel, R.J. : 920, 1566, 1567
Shillabeer, N. : 1568
Shin, H.C. : 909
Shin, J.-a. : 1569
Shinozawa, T. : 569, 783, 1879
Shirakawa, T. : 1570
Shirasawa, Y. : 1571
Shireman, J.V. : 1277
Shlesinger, Y. : 1572
Short, R.A. : 1637
Short, T.M. : 1573
Shott, G.J. : 1232
Shunula, J.P. : 1235
Sicinski, J. : 829
Sickman, J.O. : 1574
Siewertsen, K. : 677, 678
Sigg, L. : 1653
Silveira, F.L.da : 1575
Simola, H. : 1576
Simons, R.H. : 49
Simonsberger, P. : 1428
Simonsen, P. : 813
Sims, L.L. : 583
Sinclair, P. : 1577
Singh, A.K. : 1578
Singhal, R.N. : 1579
Sinha, R.K. : 815
Sinke, A.J.C. : 883
Sinsabaugh, R.L. : 1580
Sirviö, H. : 889
Sivonen, K. : 1581, 1582
Sizemore, R.K. : 560
Sjöberg, K. : 482
Sjöström, P. : 1045
Skaer, R.J. : 1583
Skei, J.M. : 1584
Sket, B. : 229, 1585
Skinner, W.D. : 1586
Skytthe, A. : 832
Slack, K.V. : 1587
Slawyk, G. : 1383, 1588
Sleigh, M.A. : 1589
Slobodkin, L.B. : 1590
Sloterdijk, H. : 1591
Sluys, R. : 1592
Sly, P.G. : 1593, 1594, 1595, 1596
Smaal, A.C. : 1597
Smayda, T. : 1598
Smedes, F. : 900
Smit, H. : 1599
Smith, A.D. : 1102
Smith, D.G. : 1600
Smith, E.P. : 255, 1106
Smith, I.D. : 792
Smith, J.D. : 441
Smith, J.P. : 1601
Smith, S. : 1602
Smith, S.J. : 1425
Smith, S.R. : 1868
Smock, L.A. : 1806
Smol, J.P. : 426, 1603
Snell, T.W. : 1604
Snoeijs, P.J.M. : 1605
Snyder, R.A. : 1606
Soares, A.M.V.M. : 90
Soetaert, K. : 1607, 1608
Soewardi, K. : 208
Solem, M.L. : 608
Sollberger, P.J. : 1609
Solonchenko, A.I. : 1211
Somers, J.A. : 1610
Somlyódy, L. : 1671
Sommaruga, R. : 1611
Sommer, T.R. : 1612
Sommer, U. : 1414, 1613, 1614
Sondergaard, M. : 834, 835, 836, 927, 1615, 1616, 1617, 1618, 1619
Sopott-Ehlers, B. : 1620
Sorgeloos, P. : 1, 354
Soriano, M.A. : 1455
Sorokin, Y.I. : 1621
Sorokin, Yu.I. : 1622
Sortkjaer, O. : 834, 835, 836, 1617, 1618
Sosa, P. : 590
Soster, F.M. : 1623
Soto, D. : 1624, 1625, 1626
Spada, G. : 1485
Span, D. : 1627
Spangenberg, D.B. : 1628
Spataru, P. : 638
Speckenbach, K. : 158
Speller, F.M. : 1629
Spencer, A.N. : 1630
Spencer, D.F. : 1631
Spigel, R.H. : 1778
Spodniewska, I. : 475
Spoel, S.van der : 1632
Springuel, I. : 1633
Sprules, W.G. : 304, 1194, 1634
Sridhar, K.R. : 287
Stabel, H.-H. : 1635
Stainton, M.P. : 1522
Stam, S.M.E. : 106
Stanczykowska, A. : 1636
Stanley, E.H. : 1637
Stansfield, J. : 804
Starkweather, P.L. : 1638, 1639
Starling, F.L.R.M. : 1640
Staudinger, B. : 1641
Steele, C.W. : 1642
Steele, D.H. : 1643
Steele, J.G. : 1644
Steele, V.J. : 1645
Steiner, S.C.C. : 1646
Steingraeber, M.T. : 1528
Stekoll, M.S. : 1647

Stensdotter, U. : 155
Stenson, J.A.E. : 1648, 1668
Stephens, D.W. : 1649
Sterry, P. : 1797
Stevenson, R.J. : 1330
Stevenson, T.T. : 575, 576
Stewart, A.C. : 1236, 1237
Stewart, B.A. : 337, 1650, 1651
Stidwill, R.P. : 1519
Stifter, P. : 1652
Stiller, M. : 1243, 1653
Stirling, H.P. : 1654
Stock, J.H. : 1655
Stoeckel, M.E. : 1843
Storey, A.W. : 1656
Storey, M.L. : 74
Störkel, K.-U. : 959
Stout III, B.M. : 1657
Stralen, M.R. van : 1597
Stuchlík, E. : 1658
Stuchlíková, Z. : 1659
Stull, J.K. : 817
Suárez, E. : 597
Subba Reddy, P.V. : 1397
Subramaniam, S.P. : 1660
Suchy, P. : 984
Sudzuki, M. : 1661
Sugai, S.F. : 1662
Sukhenko, S.A. : 1663
Sullivan, T.J. : 473
Sumoy, L. : 1455
Sundberg, P. : 1664
Sundh, I. : 1665
Suñe, N. : 982, 1349
Sunyer, R. : 644
Suren, A.M. : 1666
Suriyanarayanan, H. : 71
Suutarinen, R. : 865
Svendensen, C.N. : 1677
Svensson, J.-E. : 1667, 1668
Swadling, K. : 724
Swain, R. : 1425
Swanberg, N. : 1669
Swar, D.B. : 848
Sze, P. : 74
Szeroczynska, K. : 1670
Szilágyi, F. : 1671

T
Taaffe, R.G. : 1853, 1855
Tabak, L.M. : 1672
Tablado, A. : 198
Tack, J.F. : 1673
Taddei-Ferretti, C. : 1674
Tafe, D.J. : 1675
Tagawa, S. : 704
Taieb, M. : 109
Tait, J. : 1122
Tait, M.I. : 1610
Tajika, K.-I. : 1676
Takada, K. : 809
Takeda, N. : 1677
Takeuchi, I. : 1678
Takumura, N. : 1679
Talarico, L. : 1680
Tam, N.F.Y. : 300, 1681
Tamminga, G.H. : 1682
Tamura, S. : 1268, 1683
Tan, C.K. : 1684
Tan, L.W. : 1566
Tanaka, Y. : 1685
Tandler, A. : 1011
Tanimura, A. : 1686
Tanizaki, K.F. : 945
Tapp, J.F. : 1568
Tararam, A.S. : 1795
Tardent, P. : 606
Tarling, D.H. : 506
Tate, M. : 639
Tátrai, I. : 1687, 1688
Tay, K.L. : 1689
Taylor, C.J.L. : 480
Taylor, J.D. : 1690
Taylor, W.D. : 820
Tedengren, M. : 996
Teichert-Coddington, D.R. : 1691
Teixeira, C. : 1692
Tell, H.G. : 619
Teltsch, B. : 988
Temple, A.J. : 1693
Teodorczyk, W. : 829
Ter Braak, C.F.J. : 1694
Teshima, H. : 938
Teshirogi, W. : 782, 806, 935, 938, 1570, 1695
Texier, H. : 297
Thatcher, S.J. : 1696
Theis, T.L. : 1881
Theiss, J. : 1697
Thellen, C. : 355, 1698
Thian, J.E. : 1090
Thiéry, A. : 1699, 1700, 1701
Thistle, D. : 798
Thomas, J.D. : 111, 377, 434
Thomas, R.L. : 1199, 1702
Thomason, J.C. : 1703
Thomassin, B.A. : 1736
Thomé, J.P. : 744
Thompson, D.J. : 658
Thompson, P.-A. : 355
Thompson, R.L. : 785
Thompson, R.S. : 124
Thoreson, D.S. : 188
Thornley, S. : 661
Thornton, J.A. : 1704, 1705
Thulin, B. : 1706
Thybaud, E. : 1707
Ticku, A. : 1892
Tidou, A.S. : 1708
Tiercelin, J.-J. : 1737
Tilley, L.J. : 1587
Tilzer, M.X. : 1030
Timmermans, K.R. : 824, 1709
Timmins, C.A. : 985, 986
Timms, B.V. : 1710
Timms, M. : 1178
Timoshkin, O.A. : 1711
Tippel, E.A. : 1006
Tissier, M.D'A.A. : 1712
Titlyanov, E.A. : 1713
Toda, H. : 1714
Toepfer, C. : 1715
Toet, C. : 179
Togashi, M. : 861
Tokuda, H. : 881
Toledo, M.M. : 214
Tong, L.J. : 1339
Tonkes, M. : 1709
Tonn, W.M. : 771
Topic, J. : 1716
Torres A., C. : 1717

Torres, M. : 1718
Torreton, J.-P. : 448
Torréton, J.P. : 672
Tóth, G. : 1688
Tourneur, F. : 1719
Townsend, C.R. : 368, 960, 1325
Toyoshima, M. : 69
Traina, J.A. : 1720
Tranvik, L.J. : 1721
Tréguer, P. : 1418
Trevors, J.T. : 535, 1722
Triantaphyllidis, C. : 2
Trifonova, I. : 1723
Triska, F.J. : 1365
Troelstrup, Jr., N.H. : 1724
Troksa, M.R. : 1623
Trono, Jr., G.C. : 1725, 1726
Tsuda, R. : 1727
Tucci, S. : 527, 528
Tucker, J. : 209
Tudorancea, C. : 520, 1728
Tully, O. : 1729
Tulonen, T. : 1487, 1488, 1730
Tundisi, J.G. : 1085, 1086, 1444
Tuominen, T. : 459
Turner, J.T. : 334
Turner, P.N. : 1731
Twongo, T. : 937
Tyler, P.A. : 210
Tyler, S. : 1428

U
Uchida, N. : 1241
Ugarte, R. : 1366
Uiblein, F. : 1098
Uimonen-Simola, P. : 1576
Ukita, M. : 1218
Uncles, R.J. : 1732
Underwood, A.J. : 1733
Urabe, J. : 1734, 1735
Urano, G. : 893
Urzúa, C.C. : 1082, 1083

V
V.-Balogh, K. : 1482
Vaate, A.B.de : 1400, 1401
Vacelet, E. : 1736
Vacelet, J. : 1737
Vadineanu, A. : 1738
Vadstein, O. : 917, 918, 1271
Vajen-Finnern, H. : 1533
Valdez, J.M.B. : 437
Vale, C. : 233, 505
Valentin, J.L. : 1230
Valério-Berardo, M.T. : 1795
Valvassori, R. : 470, 471, 966, 1739
Van Cleuvenbergen, R.J.A. : 286
Van Dam, H. : 1694
Van der Does, J. : 182, 1740, 1741
Van der Moen, D.T. : 814
Van der Vlugt, J. : 182
Van der Vlugt, J.C. : 1741
Van Dijk, G.M. : 1769
Van Donk, E. : 912, 956, 957, 1287, 1742, 1743, 1744, 1745
Van Duin, E.H.S. : 179, 1746
Van Gansbeke, D. : 1759
Van Huet, H.J.W.J. : 1747, 1748, 1749
Van Liere, L. : 679, 766, 1742, 1750, 1751, 1752, 1753, 1754, 1755, 1757
Van Pruissen, F.G.M. : 487
Van Roestel, J. : 1740
Van Speybroeck, D. : 1756
Van Tongeren, O.F.R. : 678, 1757
Van Wambeke, F. : 1564
Vandelannoote, A. : 149
Vanderploeg, H.A. : 190, 1372, 1758
Vang, T. : 305
Vanhove, S. : 1759
Vanni, M.J. : 1760
Varis, O. : 889, 1761
Varó, I. : 43, 1225
Vasantha, K. : 864
Vasconcelos, V. : 1762
Vasquez, J.A. : 1763
Vasquez, W. : 1889
Vasseur, P. : 1410
Vassilenko, S.V. : 1764
Vaugelas, J. de : 1765
Väyrynen, T. : 866
Veer, H.W. van der : 1375
Vegter, F. : 1826
Velde, G. van der : 1766
Velimirov, B. : 1429
Venegas, M. : 464
Veniale, F. : 527
Venkateswarlu, S. : 1398
Verbruggen, C. : 412
Verdin, J.P. : 583
Verdonschot, P.F.M. : 1767, 1768
Verdus, M.C. : 128
Verheyen, R. : 149
Vermaat, J.E. : 1769
Vermij, S. : 814
Vernet, J.-P. : 1627
Vernon, N.J. : 1261
Verreth, J. : 1770
Verschelde, D. : 1771
Verstraelen, P. : 1740
Verstraelen, P.J.T. : 1772
Vestal, J.R. : 1257
Vickers, M.L. : 1373
Vidal, M. : 1773
Viertel, B. : 1774
Vijverberg, J. : 71, 1775
Vilchez-Quero, A. : 277
Viljanen, M. : 871
Vincent, B. : 1776
Vincent, W.F. : 1777, 1778
Vincx, M. : 1759, 1771, 1779
Vincx, M.M. : 577
Vinocur, A.L. : 619
Vinson, D.K. : 1780
Virta, J. : 1781
Vis, M.L. : 1782
Visscher, P.R.M. de : 1826
Visser, P.M. : 930
Viswakumar, M. : 1301
Vlag, D.P. : 1783
Vodopich, D.S. : 641, 1822
Voelz, N.J. : 1404, 1784
Vogel, W.R. : 1785
Voltolina, D. : 1786
Vonk, R. : 1787
Võrõs, L. : 171, 1788
Vranken, M. : 1789
Vranovsky, M. : 1790
Vries, M.B. de : 718
Vuorinen, I. : 888
Vuorinen, M. : 1387

Vuorinen, P.J. : 1387
Vyverman, W. : 1791

W
Waaland, J.R. : 1792
Waardenburg, H.W. : 980
Wada, E. : 1714
Waervågen, S.B. : 1493
Wagner, R. : 1793, 1794
Wakabara, Y. : 1795
Wakabayashi, K. : 1879
Walker, I. : 1797
Walker, I.R. : 1796
Walker, K.F. : 95
Walker, P. : 182
Walker, P.A. : 1741
Wallace, J.B. : 1798, 1799
Wallace, R.L. : 1800
Wallin, M. : 693, 1801
Walline, P.D. : 1802
Walling, D.E. : 1803
Wallmann, K. : 1804
Walls, M. : 910
Walsh, E.J. : 1638, 1639, 1805
Walters, K.H. : 1806
Waltman, M.R. : 1881
Walty, D. : 270
Walz, N. : 1807
Wamukoya, G. : 1877
Ward, J.V. : 141, 1404, 1784
Ward, P.R.B. : 1808
Ward, R.D. : 1664, 1809, 1810
Warmoes, T. : 841
Warner, G.F. : 1527
Warner, R.F. : 1435
Warwick, T. : 1810
Wassen, M.J. : 106
Watanabe, Y. : 1735
Watanuki, A. : 1811
Watase, M. : 1153
Watson, D.C. : 1251
Watson, P.G. : 112
Watt, P.J. : 11
Watts, S. J. : 188
Weatherley, N.S. : 1812
Weatherly, N.S. : 1813
Webb, D.G. : 1814
Webber, C.E. : 121
Webber, E.C. : 1815
Weber, Ch. : 1526
Weber, J. : 606
Webre, C.L. : 124
Webster, J.R. : 371
Weeks, J.M. : 1816
Wehr, J.D. : 1817
Wei, C. : 1818
Weide, G. : 1517
Weider, L.J. : 1819
Weiland, T. : 1580
Weisburd, R. : 1063
Weise, T. : 1820
Weisner, S.E.B. : 231
Weisse, T. : 1200, 1821
Welbourn, P.M. : 554
Welch, C.L. : 1822
Welch, E.B. : 1549
Welch, S. : 1017
Welton, J.S. : 1823
Wen, Y.H. : 1824
Wenjiang, D. : 1565
Wensem, J. van : 1825
Wenzel, A. : 93
Westfall, J.A. : 664
Wetsteyn, L.P.M.J. : 1826
Wetzel, R.G. : 1827, 1828, 1829, 1830
Whalen, S.C. : 899
Wharton, Jr., R.A. : 1300
Whiles, A.J. : 1101
Whitaker, V. : 1831
White, D.C. : 1238
White, D.S. : 1832
White, R.E. : 338
Whiteside, M.C. : 1833
Whitfield, P.J. : 485
Whitman, R.L. : 1834
Whitmore, T.J. : 220, 1835
Whitton, B.A. : 1514
Wicks, R.J. : 1440
Widdows, J. : 1836
Widdowson, D. : 1215
Wiedenfeld, R.C. : 1637
Wiederholm, T. : 1837
Wiegers, G. : 157
Wijck, C. van : 662
Wijnen, M.M. : 409
Wik, M. : 1838
Wikgren,M. : 1406
Wikner, J. : 1564
Wilcox, G.R. : 1839
Wild-Metzko, S. : 18
Wildish, D.J. : 301, 1840
Wilken, M. : 1841
Williams, C.J. : 1842
Williams, D.C. : 1844
Williams, D.D. : 363
Williams, G.A. : 1251, 1845, 1846
Williams, M.D. : 1847
Williams, R.B. : 1848, 1849
Williams, T.D. : 796
Williams, W.D. : 1541, 1567, 1847, 1850, 1851, 1852, 1853, 1854, 1855
Williamson, C.E. : 1843
Williamson, F.B. : 1610
Wilmshurst, J.M. : 1261
Wilzbach, M.A. : 1856
Winfield, I.J. : 1857
Winkler, H. : 1098
Winnarde, D.A. : 683
Winsor, L. : 1858
Wisniewski, R. : 1859
Wisserhof, J. : 1772
Wittingerová, M. : 218
Wittman, K.J. : 1860
Wolanski, E. : 1861
Wolf, H.G. : 761
Wolodarsky, Z. : 1436
Wones, A.G. : 1862
Wong, M.H. : 300, 1681
Wong, Y.S. : 1681
Wood, A.M. : 1564
Wood, T.S. : 1863
Woodley, J.D. : 1864
Wortelboer, F.G. : 1751
Wright, D.A. : 1865, 1866
Wright, J.F. : 1450, 1867
Wu, C.Y. : 1466
Wyers, S.C. : 1868
Wyngaard, G.A. : 427
Wynne, D. : 143, 1869

**X**
Xibao, C. : 1565
Xiu, R. : 1870
Xu, Y. : 1870
Xu, Z. : 1871
Xueliang, S. : 220

**Y**
Yamada, C.M. : 35
Yamada, M. : 1872
Yamada, T. : 880
Yamamoto, H. : 1811
Yamashita, Y. : 806
Yamasu, T. : 1873
Yampolsky, L.Yu : 1874
Yang, H.-Q. : 1679
Yang, J.E. : 1419
Yang, Y.S. : 1875
Yanling, L. : 491
Yarish, C. : 1876, 1877
Yasuda, I. : 809
Yasuno, M. : 707, 708
Ye, L. : 1679
Yentsch, C.M. : 1564
Yi, Z. : 252
Yokohama, Y. : 69
Yoneshigue-Valentin, Y. : 1878
Yoshida, W. : 783
Yoshizawa, Y. : 1879
Young, A.S. : 1120
Young, J.O. : 66, 67
Young, I.B. : 1880
Young, T.C. : 1881
Yousuf, A.R. : 1395
Yúfera, M. : 1882

**Z**
Zacharias, I. : 305
Zalewski, M. : 1883
Zalucki, M.P. : 96
Zamuda, C.D. : 1866
Zamuda, G.D. : 1865
Zanella, A. : 1154
Zanetti, F. : 1210
Zarull, M.A. : 1415
Zemmouri, A. : 1884
Zertuche-González, J.A. : 108
Zhao, Y. : 1885
Zhu, X.-B. : 1679
Ziegler, C.K. : 993, 1886
Zielinski, K. : 1697
Zierold, K. : 606
Zinoun, M. : 417
Zipan, W. : 494
Zlinskzky, J. : 1688
Zlinszky, J. : 1687
Zohary, T. : 93, 1441, 1887
Zolitschka, B. : 1888
Zoppi de Roa, E. : 1889
Zoran, M.J. : 442
Zoufal, W. : 1890
Zuguan, W. : 220
Zullini, A. : 1728
Zuñiga, L.R. : 1891
Zupan, J.R. : 1026
Zutshi, D.P. : 921, 1892
Zwick, P. : 1893
Zyska, E. : 1636
Zyska, P. : 1636

## SUBJECT INDEX


**Abiotic**
constraints
in microbial communities: 1104
effects
on phosphorus cycling: 1704
on *Chironomus circumdatus* larvae: 1492
on *Gelidium latifolium* : 1427
factors
faunal relationships
River Dan (Israel): 406

**Abramis**
*brama*
Lake Balaton (Hungary)
contribution to fish stock and yield: 171
effect on lake ecosystem: 1687
food: 170
impact on lower trophic levels: 1688

**Absolute dating**
Late Quaternary
varve chronology: 1888

**Absorption cross section**
light
seaweeds: 1386

**Absorption spectroscopy**
clones of *Synechococcus* group: 1030

**Abundance**
bacteria
method of determination
Lake Geneva (France/Switzerland): 448
*Chironomus circumdatus* larvae: 1492
*Cottus cognatus*
in relation to trout predation
arctic Alaskan lake: 1110
dissolved organic carbon
Experimental Lakes Area (Canada, Ontario): 1522
Ephemeroptera
streams: 684
*Ephydra hians*
Mono Lake (USA, California): 745
fish larvae
Chenal Ecarte and Chematogen Channel
St. Clair River (Canada, Ontario): 985, 986
fish populations
acidified Swedish lakes
before and after liming: 407
fishes
Tuesday Lake (USA): 736
hydroids
Twin Cays mangrove (Belize): 256
littoral benthic fauna
prairie saline lakes (Canada): 702
*Littorina saxatilis* and *L. arcana*
Robin Hood's Bay (U.K.): 461
*Lota lota*
in relation to lake trout abundance
Lake Opeongo (Canada, Ontario): 269
*Metapenaeus affinis*
Iraq: 1486
microcrustaceans and rotifers
Malaysian ricefields: 32
microflagellates
Kentucky Lake (USA): 1360
moss-dwelling chironomids
Breitenbach stream (central Germany): 1246
patterns
exoedicerotid amphipods
sandy beaches: 847
periphyton
effect of disturbance: 10
phyto- and zooplankton
Westport River Estuary (USA): 334
phytoplankton
Abra of Bilbao vs adjacent shelf waters (Spain): 1279
stir-up effect of wind
Lake Balaton (Hungary): 1288
planktonic crustaceans
Lake Awasa (Ethiopia): 1130
platyhelminths
intertidal sediments (Australia): 424
profundal Chironomidae
Starnberger See (Germany): 607
protozooplankton
temporal and spatial patterns: 975
*Rastrelliger kanagurta*
Zanzibar coast (East Africa): 1216
root-fouling epibionts
Belizean (Central America) mangroves: 481
rotifers
artificial crater lake: 183
species-specific patterns
piscivorous birds
Sovdeborgssjon Lake (southern Sweden): 1857
zooplankton
long-term changes
Lake Geneva (France/Switzerland): 100
Rufiji River delta (Tanzania): 1675

**Acanthaster**
*planci*
predation on *Diploastrea heliopora* and *Leptoria phrygia*
Great Barrier Reef: 265

**Acanthocyclops**
interactions with calanoids
experiments: 1626
*montana* n.sp.
groundwater (USA, Montana): 1404
*robustus*
generation time
effect of food and temperature: 368
predation on rotifers: 1445

production: 200
*vernalis*
temperature effect on reproduction: 4

**Acanthodiaptomus**
*denticornis*
grazing and assimilation rates: 950

**Acanthopeltis**
taxonomy: 1499

**Acari**
marine mites
geographical and ecological survey: 114
*Unionicola (Pentatax) macani* in *Lanistes ovum*: 507
*Unionicola intermedia*
population dynamics: 92

**Access pipes**
for water sampling beneath thick ice: 899

**Acclimation**
period
filter-feeding
*Daphnia* and *Diaptomus*: 304

**Accumulation**
of $^{110m}$Ag
by freshwater biota: 594
of $^{226}$Ra and $^{45}$Ca
by freshwater turtles
effect of calcium and magnesium: 830
of cadmium and copper
by *Mytilus edulis*: 718
of metals in pulverized fuel ash
by *Lemna minor*: 831
of *Oscillatoria* toxin
by *Anadonta cygnea*: 490
of scandium
in shoots of bryophytes
acid water: 1511
of thallium and cadmium
by *Lemna min*: 1602

**Accuracy**
algal growth curves
analysis: 186

**Acer**
*rubrum* leaf
decomposition rate
singly and with *Taxodium* leaf: 981

**Acetylene blockage technique**
modified version
for $N_2O$ evolution
tropical wetlands: 1831

**Acetylene reduction**
papyrus swamps
Lake Naivasha (Kenya): 1215

**Achaetinae**
phylogeny: 323

**Acid lakes**
Blue Lagoon and Lake Freshwater (Australia)
physico-chemical features: 1285
phytoplankton: 1285
Franklin Lake (USA, Wisconsin): 1344
on Katharine Ordway Preserve (USA, Florida)
microbiology and chemistry: 818, 819
trophic response to phosphorus: 886

**Acid precipitation**
acid lakes (USA, Florida)
microbiology and chemistry: 819
water column bacteria: 818
effect on lake and stream sediments: 995
Franklin Lake (USA, Wisconsin): 1344
metals in lake sediments
chemical stratigraphy: 1250

**Acid stress**
effect on predation rates
*Enallagma civile* nymphs: 641
on whitefish
Finnish lakes: 1387

**Acid tolerance**
variation
among freshwater crustaceans: 566

**Acid wastes**
from titanium dioxide production
effects on benthic algae: 184

**Acid water**
accumulation of scandium
in shoots of bryophytes: 1511

**Acid-alkaline phosphatase activity**
determination
from microplankton activity: 143

**Acid-base balance**
aluminum toxicity
in *Libellula*: 1447

**Acidic lakes**
Cheat Lake (USA, West Virginia)
introduction of *Anabaena*
bag experiments: 1839
phosphate deficiency
induced by liming
Lake Njupfatet (central Sweden): 1335

**Acidification**
acute cadmium toxicity
to stream invertebrates: 604
effect on abundance and cycling
dissolved organic carbon: 1522
effect on algal growth: 1258
effect on Chironomidae and mites

Round Loch (SW Scotland): 230
effect on Cladocera assemblage
Popradské pleso lake (Czechoslovakia): 1790
effect on diatom and chrysophyte assemblages
lakes in Sudbury, Canada: 426
effect on egg hatching and nymphal survival
of *Cloeon triangulifer*: 1672
effect on rotifer community structure: 222
effect on whitefish
Finnish lakes: 1387
history assessment
regional calibration
Newfoundland (Canada): 1539
impact on ecosystem productivity
Lake 817 (Canada, Newfoundland): 1472
impact on occurrence of macroflora and macroinvertebrates
modelling: 1813
impact on short-term macroinvertebrate drift
British Columbia stream: 144
indicators
diatoms
Lake District tarns (U.K., west Cumbria): 735
sensitivity of amphibian breeding ponds: 943
streams
north temperate vs south temperate zones (USA): 1188
Swedish lakes
liming effect on fish populations: 407

**Acidity**
effect on acute toxicity of Al-waste/soil extracts: 1681
effect on litter decomposition
wetlands: 1371
effect on periphyton
Lake Orta (Italy): 281

**Acoela**
*Convolutriloba retrogemma*
budding process: 742
ocelli and sagittocysts
fine structure and function: 1873
sagittocysts and copulatory organs
phylogenetic significance: 1049

**Acoustic**
assessment
fish population size
Lake Kinneret (Israel): 1802
current profiler
for lake currents measurement: 1781

**Acropora**
coral of north Jamaica
impact of hurricanes: 1864

**Acrorhagi**
in sea anemones
morphology and 'aggressive' function: 1848
use in Actiniidae taxonomy: 1103

**Acrosomal proteolytic activity**
of spermatozoa
freshwater triclads: 806

**Actiniaria**
*Entacmaea medusivora* n.sp.
from Palau (Western Caroline Islands): 509

**Actiniidae**
phylogeny
isozyme studies: 1103

**Actinonema**
*grafi* n.sp.: 833

**Actinoporus**
*elongatus*
reproduction and feeding ethology: 320

**Action spectrum**
for photosynthesis measurement: 1523

**Activities**
of $^{137}Cs$ and $^{241}Am$
sediments
Llyn Llygad Rheidol catchment (U.K.): 194
of nuclides in sediments
Ponsonby Tarn (U.K., Cumbria): 195

**Activity traps**
effects of trapped predators on invertebrate catch
evaluation: 482

**Acute**
bioassay
industrial and municipal effluents: 533
salinity
eyestalk ablation effect on *Macrobrachium*: 1118
toxicity
Al-waste: 1681
bioassays
basic concepts and assumptions
review: 1102
testing
use of bioassays and bioindicators review: 614

**Acute-to-chronic ratio**
prediction of threshold concentration
review: 614

**Adaptation**
bacterial feeding by *Daphnia galeata*: 1735
*Lepidurus couesii*
temporary ponds: 712
to predation
*Nucella lapillus*: 1297

**Adaptive strategy**
alcyonacean corals

Nanwan Bay (Taiwan): 376
*Spongilla* populations: 1050

**Adenylate energy charge**
estimation of physiological state
phytoplankton community: 757

**Adhesion**
to substrates
*Carybdea sivickisi*: 730

**Adoncholaimus**
*papillatus*
taxonomy: 577

**Adriatic seaweeds**
resource exploitation
possibilities: 1202

**Adsorption**
of $^{60}C$ by sediments: 1028
of glyphosate to suspended particulate matter
experiment: 125
of heavy metals: 1881
of phosphate
onto bottom sediments: 1349
of trace metals
*Chironomus riparius* larvae: 1709
of zinc
by lake sediments
effect of tubificids: 1623

**Aedes**
*aegypti*
larval mortality
caused by *Bacillus thuringiensis* var *israelensis*: 99
water ingestion in larvae: 1073

**Aeolosomatidae**
meiobenthos
Lake Päijänne (Finland): 1504

**Aequorea**
*victoria*
attraction to *Artemia* prey: 61

**Aerial photography**
determination of macrophytic species cover
Loosdrecht lakes (The Netherlands): 1047

**Aerobic**
decomposition
Phragmites leaves: 1685

**Africa**
Burkina Faso
*Diaphanosoma senegal*
redescription: 916
central Sahara (eastern Niger)
paleoclimate: 119
Guma Valley (Sierra Leone)
desmids: 1424
paleolakes
palynological studies
reconstruction Holocene vegetation: 1534
South Africa
*Gigartina* spp.
form variation and productivity
in relation to wave exposure: 811

**Africa, Bays**
Chwaka Bay (Zanzibar, East Africa)
nursery ground for penaeid prawns: 1660
Gazi Bay (Kenya)
seagrass and associated macroalgae: 342
Saldanha Bay (South Africa)
*Gracilaria* recovery: 1459

**Africa, Coasts**
coast of Kenya
*Bathyepsilonema anulosum* n.sp.
*Leptepsilonema richardi* n.sp.:1771
rabbit fish
fecundity estimates
effect of oocytic atresia: 1253
coast of Sierra Leone (West Africa)
freshwater systems
biological observations: 805
Dar es Salaam coast (Tanzania)
*Anadara*
diet: 875
Namibian coast
seaweeds
biogeography and accessibility: 1159
Zanzibar coast (East Africa)
*Rastrelliger kanagurta*
abundance
seasonal variation: 1216

**Africa, Estuaries**
Bou Regreg Estuary (Morocco)
biogeochemistry: 297
metal accumulation in *Nereis* and *Scorbicularia*: 297
Nigerian estuaries
comparative ecology: 39
Sunday River Estuary (South Africa)
*Adoncholaimus papillatus* and *Viscosia erasmi* n.sp.: 577
Warri/Forcados Estuary (southern Nigeria)
phytoplankton composition: 1278

**Africa, Islands**
Sao Tomé Island (Gulf of Guinea)
*Bulinus*
host of *Schistosoma*: 235

**Africa, Lagoons**
Ebrié lagoon (Ivory Coast)
hydrodynamics: 673

**Africa, Lakes**
Brewery and Boating Lakes (Nigeria, Jos)

water quality and plankton periodicity: 46
Floodplain lakes of River Niger (Nigeria, Imo State)
Rotifera
composition and diversity: 1548
taxonomy: 1546
Hartbeespoort Dam (South Africa)
extracellular dissolved carbon
from phytoplankton: 1439
Lake Awasa (Ethiopia)
crustacean zooplankton
seasonality and abundance: 1130
Lake Baringo (Kenya, Gregory Rift)
occurrence of *Dosilia brouni*: 1737
Lake Kariba (Zimbabwe)
*Bosmina longirostris*
population dynamics: 1079
Lake Kariba
ecology
synopsis: 1033
Lake Magadi (Kenya)
fluoride levels in water and fish: 615
Late Pleistocene paleoecology: 109
taphonomy and diagenesis
diatom assemblages: 109
Lake Malawi (Cape Maclear)
algal communities: 688
Lake Malha (Sudan)
mapping: 219
Lake Manzala (Egypt)
physical and chemical environment: 890
plankton and primary productivity: 891
Lake Naivasha (Kenya)
acetylene reduction: 1215
macrophyte-phytoplankton relationship: 719
*Micronecta scutellaris*
population ecology: 315
*Procambarus clarkii*
breeding biology: 1274
zooplankton
ecology and role in fishery: 1095
vertical distribution: 1094
Lake Tanganyika (Burundi)
diatoms from surficial sediments: 258
*Luciolates* demography: 1163
sedimentary diatom assemblages: 257
Lake Victoria
Nile perch
dietary changes: 1155
fishery: 94
Nyanza Gulf
massive fish kills: 1264
*Oreochromis niloticus*
growth and mortality: 609
Lakes George and Edward (East Africa)
fisheries
salinity effect on copper toxicity: 245
Ogelube Lake (Nigeria)
phytoplankton: 173
Oguta Lake (Nigeria)
*Tropodiaptomus lateralis*: 1018
Rift Valley lakes (Ethiopia)
benthic nematodes
associations and distribution: 1728
saline lakes (Namibia, Botswana and South Africa)
geographical distribution: 1541
saline lakes
Basotu Lake District (Tanzania, East Africa)
biogeochemical evolution: 894

**Africa, Mangroves**
mangroves of Gazi Bay (Kenya)
meiobenthos distribution: 1759
mangroves of Gazi Creek (Kenya)
*Crassostrea cucullata*
ecomorphology: 167
Mida Creek mangroves (Kenyan coast)
current status
remote sensing: 586
Portuguese Island mangroves (Mozambique)
community structure
effect of coast line changes: 731
Tanzanian mangroves
management plans: 1551

**Africa, Man-made water bodies**
Gebel Aulia Reservoir (Sudan, White Nile)
limnology and fish community dynamics: 713
zooplanktivorous fish assemblages: 714
Hartbeespoort Dam (South Africa)
free aminoacids and DOC
seasonal changes: 1440
phosphorus kinetics: 1704
phosphorus loading and seasonal distribution: 1705
Lake Kariba (central Africa)
population dynamics
*Pharyngochromis darlingi: 795*
*Pseudocrenilabrus philander*: 795
Mazvikadei Reservoir (Zimbabwe)
filling phase: 1078
Rhenosterkop Dam (South Africa)
population dynamics and production
phyto- and zooplankton: 1441

**Africa, Rivers**
Anambra River (Nigeria)
*Clarias* spp.
reproductive biology: 500
Buffalo River (South Africa, Eastern Cape)
water chemistry
reservoir impact: 1299
Cross River (Nigeria)
*Egeria radiata* fishery
conservation: 1174
East Caprivi and Okavango River Basin (Namibia/Botswana)
freshwater snails: 236
Naro Moru River (Kenya)
benthic invertebrates
composition and seasonality: 1081
drift: 1081
River Nile (Egypt)

euhydrophyte communities: 1633
Rufiji River (Tanzania, Mafia Island)
zooplankton and salinity: 1675
Rusizi River (Burundi)
delta
sedimentary diatom assemblages: 257

**Africa, Swamps**
Sudd swamps (River Nile, southern Sudan)
macroinvertebrate fauna: 89
management: 1177

**African fish leech**
*Batracobdelloides tricarinata*
redescription: 1276

**Agapetus**
*fuscipes* larvae
toxicity of cadmium: 1101

**Agar**
biotechnology: 65, 1409
chemical structure
physical-chemical properties
review: 948
Chilean Gelidiaceae: 1083
commercial resources
worldwide distribution: 1113
composition
Gracilariaceae from New Zealand: 575
field survey
prospects
Kenya: 1877
*Gelidium*
cultivation in China: 511
*Gelidium pristoides*
South Africa: 49
*Gelidium rex*: 1082
*Gracilaria bursa-pastoris*
*Gracilaria cf. verrucosa*
Mar Piccolo (Italy): 283
*Gracilaria domingensis*
yield
with calcium addition: 458
*Gracilaria dura*
chemical characterization: 1210
*Gelidium madagascariense*
chemical composition: 1158, 1143
*Gracilaria sordida*
quality: 1339
*Gracilaria verrucosa*
cell-wall ultrastructure: 1680
recovery
Saldanha Bay (South Africa): 1459
strain G-16
cultivation: 169
*Pterocladia capillacea*
quality and yield: 610

**Agardhiella**
*subulata*
tissue culture
effects of growth regulators: 213

**Agarophyte**
*Gelidium*
cultivation: 1129

**Agarose**
biotechnological applications: 65
chemical and functional properties: 948
seaweeds
biotechnology: 1409

**Age**
at maturity
*Galaxias occidentalis*: 1315
*Daphnia cucullata* clones: 462
determination
*Anguilla anguilla*: 1052
*Cyprinus carpio*: 518
*Galaxias occidentalis*: 1316
*Leuciscus svallize*: 463
fish
tropical rain forest stream: 1320
distribution
in brown trout
effect of angling: 214
*Ecklonia stolonifera*
holdfasts
size and age relationship: 1252
rotifers
protein patterns: 272
structure
*Mesocyclops edax*: 427

**Agglutinins**
from marine algae
properties: 777

**Aggregation**
iron-phosphate complexes
organic carbon: 547

**Aggression**
experimental habituation
in *Actinia equina*: 212
actiniarian and scleractinian Cnidaria: 1848

**Agricultural**
wastes
utilization by *Artemia*: 115
streams
nutrients and periphyton growth
*in situ* experiment: 249

**Ahnfeltia**
taxonomy
life history implications: 1034

**AIDS**
antiviral carbohydrates
from red algae: 1231

**Aiptasia**
*mutabilis*
nematocyst discharge
effect of trypsin: 1485

**Air sac length**
*Chaoborus americanus*
relationship with larval dry weight: 1720

**Air-water oxygen consumption**
intertidal prosobranchs: 1117

**Alarm response**
*Nucella lapillus*
in shell form
rate of feeding and growth: 1297

**Alboglossiphonia**
*polypompholyx*
ecology: 478
host specificity: 478
life cycle: 478

**Alburnus**
*alburnus*
impact on water quality: 781
impact on sedimentation and nutrient loading: 781
selective predation
effect on horizontal distribution of Cladocera
Sainte-Croix reservoir (S.E. France): 1353

**Alcyonaceans**
distribution and adaptive strategies
Nanwan Bay (Taiwan): 376

**Aldehydes**
bioflavor production
*Ulva* culture systems: 568

**Alestes**
distribution and feeding ecology: 714
seasonality
Gebel Aulia Reservoir (Sudan): 713

**Algae**
assemblages
intertidal and subtidal marine habitats
influence of physical and biological conditions: 1733
organization
Northeast Pacific: 551
associations
Lake Kuortaneenjärvi (Finland): 1761
North Icelandic coast: 1201
bioassays
toxicity testing
overview: 1193
biomass and primary production
effect of suspended solids
streams: 389
humic lake
mesocosm experiment: 1487
temporal variability
subtropical Florida lakes: 123
response to nutrient release
enclosure study: 1687
biomass and species composition
effects of *Anabaena* inoculation: 1839
effects of forest clearing: 770
effects of pH elevation and N/P manipulation: 1839
bloom
*Nodularia spumigena*
southern Baltic: 1581
*Chlorella pyrenoidosa*
growth
effect of phenolic acids: 967
composition and density
effect of flushing: 814
culture
functional-form model: 710
defences
against littorinid grazing: 1251
epizootic
on freshwater branchiopods: 1700
fluorescence
technique for toxicity assessment: 1198
*Gracilaria verrucosa*
Strain G-16
cultivation: 169
growth curves
accuracy and reproducibility
analysis: 186
growth inhibition
by high light intensities
acid lakes: 1258
growth kinetics
effect of light: 1433
growth
effect of dissolved organic matter: 1730
effect of resuspension
Lake Tämnaren (Sweden): 740
in relation to photoassimilation
Monod's formula: 628
*in situ* nutrient enrichment experiments: 249
impact of cyprinids
drainable ponds: 1126
metaphyton
effect of large grazers: 554
nitrogen flow: 1217
overgrowth
coral damage
quantitative assessment: 1429
pigments
seasonal trend
Ariège and Garonne rivers (France): 296
populations
recovery responses
exposures to effluent: 355
primary production
portable chamber: 574
Lake Awasa (Ethiopia): 892
resources

exploitation
northern Adriatic: 1202
survival
sea urchin's ingestion: 1269
toxicological bioassay: 1192
*Ulva lactuca*
indicator of metal contamination: 760
uptake of phosphorus
Hartbeespoort Dam (South Africa): 1704
wash
impact on reedbelt
Lake Constance-Untersee (Germany): 1282

**Alginate hydrolase**
alginate degradation
by marine fungi: 1517

**Alginate lyase**
alginate decomposition
by marine fungi: 1517
encoding
by *Klebsiella pneumoniae* gene: 579

**Alginates**
commercial resources
worldwide distribution: 1113
enzymatic degradation: 579
field survey
prospects in Kenya: 1877
*Pophyra yezoensis*
dye-based assay
for mannuronan 5'-epimerase: 1381
sea weeds
biotechnology: 1409

**Alimentary canal**
structure
*Chaetogaster limnaei limnaei*: 602

**alkaline phosphatase activity**
Lake Nantua (France): 529

**Alkalinity**
development of *Hexarthra* spp.: 748
of seston in natural waters
determination: 335

**Alkanes**
from particulate non-aromatic hydrocarbons
molecular markers: 1538

**Alkenes**
from particulate non-aromatic hydrocarbons
molecular markers: 1538

**Allochthonous**
coarse particulate organic matter (CPOM)
importance
low order streams: 221
dissolved organic matter
energy source
pelagic bacteria: 1721
litter
mountain stream: 1650
organic input
effect on carbon fluxes
Albenche river (France): 543
relationship with benthic community richness
submarine cave: 530
southern Ontario streams: 1456

**Allogeneic recognition**
phylogeny
sea anemones and corals: 1848

**Allometry**
plankton community size structure
relationship with respiration: 21
shell
*Nucella lapillus*: 1297
size efficiency hypothesis: 1327
tail spine in *Daphnia*: 1343

**Allostoma sp.**
photoreceptors
ultrastructure: 962

**Allozymes**
variation
tubificid oligochaetes: 1819

**Alona**
*hercegovinae* n.sp.
from caves of Hercegovina (Yugoslavia): 215
*sketi* n.sp.
from hypogean waters
Yugoslavia: 216

**Alosa**
*fallax fallax*
diet of juveniles and adults: 60
*aestivalis*
food habits: 671

**Alpha spectrometry**
$^{210}Pb$
dating of aquatic deposits: 476

**Alpine**
chironomid assemblages
comparison with arctic counterpart: 1796
phytoplankton
photosynthetic activity
Emerald Lake (USA, California): 1574

**Alternative prey**
*Moina micrura*
to *Mesostoma*
experiment: 175
of *Mesocyclops edax*: 821

**Alternative water supply options**
strategy for eutrophication control
Hollands Ankeveen lakes: 1772

**Altiplano**
*Neoboeckella loffleri* n.gen. n.sp.
Bolivia: 120

**Altitude**
zonation
Ephemeroptera
subtropical river: 437

**Aluminum**
accumulation
in bryophytes
correlation with scandium: 1511
effect on cultures of phytoplankton
acid lake: 1344
effect on egg hatching and nymphal survival
*Cloeon triangulifer*: 1672
effect on macroinvertebrate drift: 144
levels
north vs south temperate streams (USA): 1188
phosphate
adsorption within sediments: 1349
effect on phosphorus dynamics: 820
toxicity
to *Libellula julia*: 1447, 1448

**Alveolar layer**
cyst wall structure
*Streptocephalus spp.*: 404

**$^{241}$Am**
as dating tool: 59, 194

**America, Central**
Panamá
freshwater sponges: 1351
Costa Rica (Rio Claro)
Rivers
fish distribution and community structure: 1016

**America, North**
Canada (British Columbia)
nori cultivation: 1190
USA
Florida lakes
trophic state
indication by sedimentary diatoms: 1835
nori cultivation: 1190

**America, North, Bays**
Bay of Fundy (Canada)
gammaridean community structure
comparison: 301
Chesapeake Bay (USA)
risk assessment strategy: 1280

**America, North, Coasts**
coast of Maine (USA)
tidepools
seasonal absence of fishes: 1168
coasts of California and Gulf of Maine (USA)
subtidal sea anemones
comparative ecology: 723
North Carolina coast (USA)
*Polysiphonia breviarticulata*
introduction: 869
Pacific Coast
*Halicyclops hurlberti* n.sp.: 1443
seaweed industry
review: 1515

**America, North, Estuaries**
James River Estuary (USA, Virginia)
pollution and tidal benthic communities: 422
Neches river estuary (USA, Texas)
macrobenthos
community structure: 721
New Bayou (Texas, USA)
oil pollution
effects on macrobenthos: 1222
St Lawrence estuary (Canada, Quebec)
phytoplankton
dynamics of carbon assimilation: 415
Westport River Estuary (USA, Massachusetts)
phyto- and zooplankton: 334

**America, North, Fjords**
Saguenay Fjord (Canada)
phytoplanktonic production: 294

**America, North, Gulfs**
Gulf of California
seaweed harvesting
ecological impact: 108
Gulf of St. Lawrence (Canada)
Copepoda
distribution and production: 313
gammaridean community structure
comparison: 301

**America, North, Harbours**
Toronto (Ontario) and Toledo (Ohio) Harbours
sediment toxicity: 1199
Toronto Harbour (Canada, Ontario)
*in situ* bioassessment
dredging and disposal activities: 1196

**America, North, Islands**
southern Vancouver Island (Canada)
*Littorina scutulata*
feeding habits: 1786

**America, North, Lakes**
Belews Lake (USA, North Carolina)
zooplankton community structure
effect of fish removal: 1058
Calcasieu (USA, Louisiana)
heavy metal concentrations
surface sediments: 124
Calder Lake (USA, New York)
predominance of pico- and nanoplankton: 1817
Canadian Shield lakes

size-fractionated phytoplankton
biomass and photosynthesis: 947
Cheat Lake (USA, West Virginia)
maintenance of *Anabaena* inoculation
bag experiments: 1839
Flathead Lake (USA, Montana)
P uptake by plankton: 431
ammonium and nitrate flux
effect of phosphate enrichment: 430
Franklin Lake (USA, Wisconsin)
phytoplankton
pH-independent effect of aluminum: 1344
Great Lakes (Canada/USA)
*Diporeia* sp.
ingestion of live diatom filaments: 1372
anthropogenic stress
indication by microbial loop: 1200
Great Salt Lake (USA, Utah)
lake levels
salinity and biological community: 1649
Henry's Fork of the Snake River (USA, Idaho)
organic matter transport: 53
Islets and Burnt Island Lakes (Canada, Ontario)
white sucker
thermal stratification: 1006
benthic foraging patterns: 1006
Kennedy and Muriel Lakes (Canada, British Columbia)
*Neomysis mercedis*
life history and production: 341
Lake 817 (Canada, Newfoundland)
response to acidification
lake productivity: 1472
Lake Apopka (USA, Florida)
alkaline phosphatase activity
effect of sediment resuspension: 1234
*Eichhornia crassipes*
seasonal production of detritus: 1392
Lake Christina (USA, Minnesota)
biomanipulation
plankton and turbidity response: 717
Lake Diefenbaker (Canada, Saskatchewan)
sediment toxicity assessment: 655
Lake Erie (USA)
*Dreisenna polymorpha*
spawning: 687
Lake Mead (USA)
zooplankton communities: 1609
Lake Memphremagog (Canada, Québec)
periphyton
spatial variation
effect of fetch: 282
Lake Mendota (USA, Wisconsin)
fish mass mortality
effect on plankton community: 1760
zoobenthos diversity profundal sediments: 971
Lake Michigan (USA)
winter phytoplankton bloom
utilization by reproducing copepods: 1758
Lake Muskoka (Canada, Ontario)
*Bosmina*
hybridization: 994
Lake Notasha (USA)
world's 'most dilute' lake: 473
Lake Ontario (Canada)
Bay of Quinte (Canada)
metal contamination
sediments and biota: 364
bioassay
sediment toxicity evaluation: 414
effect of land use and cultural development: 1593
fine sediment dispersal
organic components as tracers: 322
*Pontoporeia* densities and distributions: 1596
Lake Shenandoah (USA, Virginia)
phenology of dormancy
*Mesocyclops edax*: 427
Lake St. Clair (Canada/USA)
plankton
ecology: 1194
community structure: 1634
biota
environmental assessment: 977
habitat evaluation: 977
phosphorus cycling by mussels: 1220
Lake Tahoe (USA, California-Nevada)
primary productivity
long-term changes: 826
zoo- and phytoplankton interactions
experimental comparison: 484
Lake Temiskaming (Canada, Ontario-Quebec)
benthic invertebrates
distribution: 1484
lakes 203 and 630 (Canada, Newfoundland)
pH reconstruction
diatom indicators: 1539
Lakes Labelle, Mountaintop and Middle (Canada, Sudbury)
paleolimnology: 426
stratigraphy: 426
Laurentian Great Lakes
Toronto (Ontario) and Toledo (Ohio)
sediment toxicity testing: 1199
tubificid oligochaetes
allozymic variation: 1819
Mahoney Lake (Canada, British Columbia)
microstratification patterns
causes and biological significance: 1249
Moira Lake (Ontario, Canada)
arsenic
water-sediment transport: 347
Mono Lake (USA, California)
*Artemia monica*
cyst production and recruitment: 379
*Ephydra hians*
distribution and abundance: 745
Mountain Lake (USA, Virginia)
ammonium uptake by phytoplankton
seasonal pattern: 1308
Onondaga Lake (USA, New York)
zooplankton
impacts on chlorophyll and transparency: 74

Peoria Lake on Illinois River (USA)
successional changes
effect of sedimentation: 161
Pyramid Lake (USA, Nevada)
nutrient cycling and productivity: 978
*Nodularia spumigena* blooms
magnitude and long-term changes: 583
Shoal Lake (Canada, Manitoba-Ontario)
aquatic macrophytes
heavy metal accumulation: 1346
Soda Lake (USA, Nevada)
*Brachionus plicatilis*
population genetics: 1885
Subarctic lakes (Canada, Québec)
associations of aquatic insects: 720
Toolik Lake (USA, Alaska)
biogeochemistry
lake sediments: 350
ecosystem control mechanisms
limnocorral experiment: 1257
effect of slimy sculpin predation
on benthic invertebrates: 369
microplankton
community structure
bottom-up regulation: 1464
silicon budget: 349
slimy sculpin
shifts in abundance and growth: 1110
Triangle Lake (USA, Ohio)
zooplankton community structure
*Chaoborus* predation impact: 733
zooplankton dynamics: 734
West Point Lake (USA, Georgia)
cultural eutrophication
10-year study: 121

**America, North, Man-made water bodies**
Arcadia Lake (USA, Oklahoma)
benthic macroinvertebra: 116
Eau Galle Reservoir (USA, Wisconsin)
phytoplankton succession
effect of mixing and silica enrichment: 90
alum treatment
effect on phosphorus dynamics: 820
Lake Arlington (USA, Texas)
carbon flow: 308
Lake Theo (USA, Texas)
feeding of blueblack herring
effect on zooplankton community: 671
Lake Waco (USA, Texas)
*Hexagenia limbata*
production
relationship with chlorophyll content: 1822

**America, North, Marshes**
Coyote Hills Marsh (California, USA)
invertebrate bionomics: 140
Louisiana Gulf Coast marshes (USA)
nitrogen cycling: 410

**America, North, Ponds**
amphibian breeding ponds (USA, Wisconsin)
acid sensitivity and water chemistry: 943
Pool 19 on Mississippi River (USA)
successional habitat changes
effect of sedimentation: 161

**America, North, Ricefields**
rice plots in Central Valley (USA, California)
biological control of mosquitoes: 176

**America, North, Rivers**
Beaverlodge River (Canada, Alberta)
*Thymallus arcticus*
spawning: 270
Calcasieu River (USA, Louisiana)
heavy metal concentrations
surface sediments: 124
Canagagigue Creek (Canada, Ontario)
sediment respiration: 535
leaf litter processing
invertebrate colonisation: 168
Crystal and Alafia Rivers (USA, Florida)
distribution of dissolved DNA: 1309
Detroit River (USA, Michigan)
contaminants and human activities
effect on biota: 1054
heavy metals accumulation
aquatic macrophytes: 1055
Trenton Channel
heavy metal sorption by sediments: 1881
sediment contamination
response of bacteria and phytoplankton: 1157
Tumors in fish
sediment contaminants: 1019
Flathead and Kootenair rivers (USA, Montana)
organic carbon dynamics: 1326
Fraser River (Canada, British Columbia)
sediments and water
evaluation: 459
Kingsley Creek (USA)
algal primary production: 574
Kuparuk River (USA, Alaska)
drainage
water and sediment export: 925
effect of river fertilization
on *Baetis* drift: 758
epilithic diatom community
effect of phosphate fertilization: 1142
nitrogen and phosphorus
concentrations and export: 1329
*Prosimulium* response
phosphorus enrichment: 755
Little River (USA, North Carolina)
benthic macrophytes
seasonal dynamics: 498
Mississippi River (USA, Louisiana)
bacterial populations
relation to secondary production: 743
invertebrate drift
temporal variation: 908
drift patterns
macroinvertebrates: 907

Mitchell River (USA, North Carolina)
freshwater snails
ingestion of diatoms: 423
New River (USA, West Virginia)
crayfish populations
annual production: 1451
Northern California coast stream (USA)
hyporheic fauna: 1111
Ochre River (Canada, Manitoba)
Trichoptera
abundance and distribution: 325
diversity: 325
Ogeechee River and Black Creek (USA, Georgia)
Protozoa
population dynamics: 271
Ohio River and Kentucky tributaries (USA)
phytoplankton
seasonality: 1330
Osage and Black river basins (USA, Missouri)
water quality assessment
use of stream order and biological indices: 367
Patuxent River (USA, Maryland)
copper contamination: 1865
use of oysters as indicators: 1866
St. Clair River (Canada, Ontario)
benthic macroinvertebrates
distribution: 660
larval fish
distribution and abundance: 986
larval *Procladius* spp.
mouthpart deformities: 413
limnological aspects: 661
St. Lawrence River (Canada)
bioassay
sediment toxicity evaluation: 414
epiphytic gastropod communities: 1776
micro-organisms
bioassay: 1591
St. Marys River (USA/Canada)
benthic invertebrate communities
effect of pollution: 248
biota
environmental assessment: 877
habitat evaluation: 877
Polycyclic aromatic hydrocarbons: 878
wetlands
historical changes
measurement and evaluation: 1844
Tombigbee River (USA, Mississippi)
Oligochaeta
colonisation of gravel bar: 166
Truckee River (USA, Nevada)
attached diatom communities: 1468
Upper Connecting Channels of Great Lakes (USA/Canada)
heavy metal contamination
sediments: 1239
Upper Guadalupe River (USA, Texas)
lotic and lentic algal communities: 1637
Wood River (USA Rhode Island)
*Lemanea fucina*
phenology: 1782

**America, North, Swamps**
Marsh-pond and swamp (Canada, Ontario)
rotifer associations: 1245
South Florida Swamplands (USA, Florida)
human impact: 1177

**America, North, Wetlands**
Hidden Valley Wetland (Canada, Ontario)
hydrologic processes: 601

**America, South**
Argentina
chlorophyll-total P residual variance
controlling factors: 1374
Baja California (Mexico)
*Sargassum muticum*
ecology: 15
Bermuda
deep-water macro-algae
photosynthetic performance: 1311
Chile
Gammaridae
taxonomy: 634
harvesting of *Lessonia*
ecological effects: 1763
intertidal and subtidal vegetation
wave-exposed habitats: 1500

**America, South, Bays**
La Herradura de Guayacan Bay (Chile)
*Lessonia trabeculata*
juvenile sporophytes
culture and growth: 464

**America, South, Coasts**
Brazilian coast
*Halocordyle disticha*
intraspecific variation: 1575
carrageenophytes
chemical screening: 1480
Coast of Baja California (Mexico)
carrageenophytes
infrared analysis: 352
Patagonian coast (Argentina)
toxic dinoflagellate bloom
PSP production: 496
Southeastern Coast of Brazil
seaweed survival
sea urchin's ingestion: 1269

**America, South, Estuaries**
Suape (Brazil, Pernambuco)
planktonic rotifers: 1230

**America, South, Gulfs**
Gulf of California (Mexico)
*Samuraia tabularasa* n.gen. n.sp.: 1051

**America, South, Lagoons**
La Cuarentena Lagoon (Argentina)
*Prochilodus platensis*
density: 344
Marica Lagoon (Brazil
Rio de Janeiro)
ammonification rates: 521
$^{210}$Pb in sediments: 521
Piratininga and Itaipu lagoons (Brazil)
heavy metals
biovailability in sediments: 945

**America, South, Lakes**
El Sol (Mexico)
limnology: 131
Lagoa do Infernao (SP Brazil)
bacteria
distribution in sediment: 558
Laguna Ezquerra (Argentina)
*Bosmina* feeding
interference of *Asterionella*: 97
Lake Patzcuaro (Mexico)
new morphometric study
productivity assessment: 1717
Lake Tebenquiche (Chile, Salar de Atacama)
limnological reconnaissance: 1891

**America, South, Man-made water bodies**
Americana Reservoir (Brazil)
fish zooplanktivory
effect on phytoplankton: 1248
Barra Bonita reservoir (Brazil)
predation
*Mesocyclops* spp.: 1086
Broa reservoir (S.P.-Brazil, Sao Carlos)
plankton crustacea
biomass fluctuation: 1085
Embalse del Río III Reservoir (Argentina)
bacterial secondary production
in relation to primary production: 1060
water quality
impact of nuclear power plant: 1061
Ezequiel Ramos Mexía Reservoir (Argentina)
physical and chemical features: 1059
phytoplankton and primary production: 1059
Lake Ton-Ton (Uruguay)
sediment oxygen demand: 1611
Lobo Reservoir (Brazil, Sao Paulo)
chemical composition of macrophytes
implications for ecosystem metabolism: 103
Paranoá Reservoir (Brasília-Brazil)
planktivorous fish
impact on plankton community: 1640
impact on eutrophication: 1640
Ramos Mexía Reservoir (Argentina)
*Chilina gibbosa*
population dynamics and production: 198
Rio Grande Reservoir (Brazil)
planktonic Protozoa
ecology: 104
'Parana Medio' reservoir (Argentina)
phosphate activity
influence of pH and redox potential: 1040

**America, South, Mountains**
Andes Mountains (Peru)
*Notholca* spp.
reappraisal: 769
Cordillera Oriental of Andes (Colombia)
calanoid fauna: 600

**America, South, Rivers**
Córrego da Barra Funda (Brazil,Ipiguá)
macroalgae
composition: 859
Orinoco river (Venezuela)
Intermediate Disturbance Hypothesis
effect on phytoplankton: 276
Parana Medio River (Argentina)
plant material
decomposition: 703, 982
nutrient liberation rate: 982
Paraná River (Argentina)
benthos
transverse zonation: 1056
*Ilyocryptus paranaensis* n.sp.: 1291
lentic environments
fish populations: 343
particulate carbohydrates and aminoacids
controlling factors: 885
*Tessaria integrifolia*
litterfall and colonisation: 1228
leaf decomposition: 1228
Reconquista River (Argentina)
rotifers
taxonomy: 936
River Lujan (Argentina, Buenos Aires)
phytoplankton community
structure and dynamics
in relation to pollution gradient: 619
Rio Canas-Horcones stream (Argentina)
altitudinal replacement of Ephemeroptera: 437
River Taruma-Mirim (central Amazon)
biomass transfer
in benthos: 1797
River Todasana (Venezuela)
fish population estimation
and producion: 1320

**America, South, Seas**
Mexican Caribbean Sea
*Siphonophora*
abundance: 597
composition: 597
distribution: 597

**Amino acids**
In dissolved organic carbon pool
polyhumic lake: 1205
mineralization by bacteria
fertilized pond: 1160
movement
from host to *Chlorella*: 1100
of groundwater

fate in stream bed sediments: 531
of particulate matter
seasonal changes: 1152
Particulate phase
determination
Paraná River (Argentina): 885

**Aminopeptidase**
Origin distribution and activities
polyhumic lake: 1206

**Ammonia**
Effect on litter breakdown
experimental streams: 1233
Pore water
Dead Sea sediments: 1243

**Ammonification**
Rates
in sediments
Marica Lagoon (Brazil, Rio de Janeiro): 521

**Ammonium**
Concentrations
ground water
riparian zone: 752
Effect on *Kappaphycus* alvarezii
carrageenan content: 1466
growth: 1466
Flux
effect of phosphate enrichment: 430
Release
relation to sediment properties: 1773
Uptake by phytoplankton
daily pattern: 1153, 1777
seasonal pattern: 1308

**Amniclineus n.gen.**
*zhujiangensis* n.sp.
China: 612

**Amoeba**
*Trichosphaerium*
digestion of seaweeds: 1352

**'AMOEBE-approach'**
Ecological assessment
Loosdrecht lakes (The Netherlands) : 766

**Amphiatlantics**
Among marine mites: 114

**Amphibia**
Anuran larvae
suspension feeding: 1774
Breeding ponds
acid sensitivity and water chemistry: 943
Species richness
in reation to pond size: 943

**Amphipoda**
Caprellidea
review of Brazilian works: 1795
*Caprogammarus*
taxonomy: 1678
*Caprogammarus gurjanovae*
redescription: 1678
Exoedicerotids
abundance patterns
sandy beaches (Australia): 847
Colonisation of artificial habitats: 466
Community structure
effect of fish predation: 1469
role of complexity of algae: 1470
Comparative fore-gut morphology
Antarctic animals: 328
*Corophium curvispinum*
life history: 1212
Eco-physiological characteristics
caprellids
Possjet Bay (Japan Sea): 1764
Feeding of *Diporeia*
on diatoms: 1372
From hydrotechnical structures
N.W. Black Sea: 29
Gammaridae
review of Brazilian works: 1795
taxonomy
from Chile: 634
reproductive bionomics
review: 1479
suprabenthic shelf subcommunity structure
comparison: 301
growth-estimation method: 1840
*Hyalella azteca*
Sediment bioassay: 196
*Ingolfiella canariensis* n.sp.
Tenerife and Hierro (Spain): 1787
Larvae
*Platanus* leaf litter
feeding test: 1042
maternal care for juveniles
*Caprella monoceros and C. decipiens*: 57
mating behaviour
sexual dimorphism: 333
methods
for swimming behaviour: 202
moulting cycle
talitrids: 1816
oostegite structure
significance: 1643
predation
*Crangonyx shoemakeri*: 1535
*Pseudoniphargus candelariae* n.sp.
Tenerife (Canary Islands): 1490
respiration
*Orchomene plebs*: 1385
*Waldeckia obesa*: 1385
*Rhipidogammarus rheophilus* n.sp.
Tenerife (Canary Islands): 1655
species composition and biomass
Lake Balaton (Hungary): 1213
sublittoral zoobenthos
Antarctica: 829

suterranean forms
biogeography
vicariance models: 772
Talitridae
copper and zinc concentrations
seasonal variation: 1384
local distributions
western Tasmanian coast: 1425
Tube-building behaviour
*Cerapus*: 111
*Grandidierella*: 111
Type II microtrichs
distribution and frequency
in gammarideans: 1645
Water loss vs gill area
supralittoral forms: 1067

**Amphora**
*tanganyikae* n.sp.: 258

**Ampullae**
*Halammohydra intermedia*
ultrastructure and function: 316
*Millepora complanata*
ultrastructure: 991

**AMS-$^{14}$C-datings**
terrestrial plant remains
chronology of Late Glacial: 1009

**Amylolytic bacteria**
temporal distribution in sediment
Lagoa do Infernao (SP Brazil): 558

**Anabaena**
diet of *Brachionus calicyflorus*
*Asplanchna* predation risk: 1639
*circinalis*
behaviour in field
long-term observations: 1096
extracellular products
toxic effect on *Daphnia*: 549
inoculation
effect on algal biomass
and species composition: 1839
toxic bloom: 1582

**Anadara**
*antiquata*
diet: 875

**Anadonta**
*cygnea*
accumulation of *Oscillatoria* toxin: 490

**Anaerobes**
distribution
sediment-water interface
oxygen and Eh profiles: 523

**Anaerobic**
ciliate community
Lake Cisó (Spain): 598
mineralization
sulphate-reducing bacteria: 689

**Analogy**
chironomid communities
Late-Glacial and modern alpine/arcitic: 1796

**Anatomy**
*Carybdea sivickisi*: 730
*Gracilaria verrucosa*: 167
proboscis
*Mesorhynchus terminostylis*: 401
turbellarians: 1600

**Ancient sediments**
distribution of nutrients and trace metals
Neusiedlersee (Austria): 681

**Anemonia**
*viridis*
cnida discharge
venom delivery mechanism: 1703

**Angling exploitation**
*Salmo* population structure
mountain streams (Spain): 214

**Anguilla**
*anguilla*
biology: 1052
removal
effect on subsequent densities: 1002

**Anheteromeyenia**
*ryderi*
survival of gemmules: 513

**Animal trial**
mass culture
*Dunaliella*
for oxygenated carotenoids: 1181

**Anisomysis**
*mixta australis*
life history
seasonal variation: 517

**Annelida**
*Clitellata*
as subphylum
review: 773
tubificids
effect on zinc uptake
by lake sediments: 1623

**Annual reproductive cycle**
*Anthopleura asiatica*
clonal populations: 567

**Anodonta**
*anatina*

host of *Unionicola intermedia*: 92
*cygnea*
filtration activity
effect of copper and lead: 1482

**Anomopoda**
*Ilyocryptus elegans* n.sp.
Argentina: 1292

**Anopheles**
*freeborni*
predation by *Mesostoma*: 175
biological control: 176
Irrigation Scheme
Mwea-Tebere (Kenya): 1214

**Anostraca**
*Artemia*
culture: 115
autoecology and biogeography
saline lakes (Spain): 36
*Branchinecta granulosa*
redescription: 327
*Branchinecta longiantenna*
uptake of heavy metals: 1154
*Branchinecta*
taxonomy and zoogeography
Yugoslavia: 1332
*Branchipus cortesi* n.sp.
western Spain: 38
*Branchipus schaefferi*
indirect effects on mosquito larvae: 99
*Branchipus serbicus* n.sp.
Yugoslavia: 1334
*Chirocephalus brevipalpis*
taxonomy and zoogeography: 1331
*Chirocephalus diaphanus*, *Tanymastix stagnalis*
life history relationships: 1208
coexistence
with Notostraca and Spinicaudata: 1699
distribution
Yugoslavia: 1334
epizootic algae and Protozoa: 1700
feeding
predatory tendencies
*Streptocephalus proboscideus: 1136*
for freshwater fish culture in Italy
review: 1209
from Maltese Islands: 963
growth measurement
video technique: 402
resting eggs
morphology: 1701
species distribution
Mexico: 1031
*Streptocephalus macrourus*
egg hatching causative factors: 1149
*Streptocephalus proboscideus*
aquaculture: 403
*Streptocephalus* spp.
cyst wall structure
comparison: 404
filtration apparatus
SEM morphology: 1135
*Streptocephalus torvicornis*
distribution and morphology: 452
*Streptocephalus macrourus*
growth rate and efficiency: 1150
*Tanymastix stagnalis*
survival in temporary ponds: 647
*Thamnocephalus platyurus* and *Streptocephalus dichotomus*
cyst hatching: 451
*Branchinecta belki n.sp.*
Mexico: 1032

**Anoxic lake**
trace metal dynamics: 1167

**Antarctica**
Amphipoda
comparative fore-gut morphology: 328
fast ice
*Paralabidocera antarctica*
postembryonic development: 1686
Weddell Sea
*Antarcticobradya tenuis*: 1529

**Antarctica, Bays**
Admiralty Bay (South Shetland Islands)
sublittoral amphipods: 829
*Orchomene plebs*
respiration: 1385

**Antarctica, Islands**
Deception Island
thermal structure of lakes and ponds: 440

**Antarctica, Lakes**
Ace Lake (Vestfold Hills)
methane production: 556
Kirisjes Pond and Pup Lagoon (Larsemann Hills)
environmental history: 618
Lake Fletcher (northern Vestfold Hills)
zooplankton composition
temporal changes: 494
Lake Hoare (Southern Victorialand)
benthos
lipophilic pigments: 1300

**Antarcticobradya**
*tenuis*
Weddell Sea (Antarctica): 1529

**Anthopleura**
*asiatica* clones
gonad development: 567

**Anthozoa**
bioluminescence: 746
*Calliactis parasitica*
*Aiptasia mutabilis*
nematocyst discharge

effect of trypsin: 1485
developmental pathways: 508
evolution
5S ribosomal RNA: 775
myoepithelial cell
structure and functional adaptation: 768
*Protopalythoa*
gametogenesis and spawning
annual cycle: 1474
*Sagartia elegans*
asexual reproduction
effect on population structure: 1563
sea anemones
nematocyst terminology
historical review: 489

**Anti-herbivore compounds**
in aquatic macrophytes
isolation: 1666

**Anti-predator defence**
'neckteeth' in *Daphnia*: 1304
role of chemical communication: 623

**Anti-predatory device**
limnephilid larval cases: 842

**Anti-rhodopsin IgG**
detection of rhodopsin-like proteins
in *Dugesia japonica japonica*: 569

**Antichthomysis n.g.**
*notidana* n.sp.: 516

**Antipatharia**
*Antipathes fiordensis*
mutualism
with *Astrobrachion constrictum*: 650
skeletal growth rings
chemistry and structure: 626

**Antiquity**
of halacarid mites: 114

**Antisera**
against prey categories
of *Cymatia bonsdorfi*: 1405

**Antitumor**
activity
marine algae: 1244

**Antiviral**
carbohydrates
from marine red algae: 1231

**Anuraeopsis**
*miraclei* n.sp.
Spain: 919

**Apatania**
*fimbriata*
life-cycle: 76

**Apatite**
calcite and dissolved phosphate reaction: 1008

**Aphanizomenon**
seasonal distribution
disturbance events
Lake Godstrup (Denmark): 813
toxic bloom: 1582

**Aphanomyces**
*astaci*
pathogen of crayfish-plague: 1089

**Apical organ**
development
planula larva
*Haliplanella lineata*: 571

**Apparatus**
wave action reduction: 1099
interstitial water collection
from sandy sediments: 1834
odometre
length (or area) measurement
underwater transects: 1184

**Applied limnology**
trends in Finland
review: 1507

**Aquaculture**
*Artemia franciscana*: 9
eastern Africa
review: 372
fish
tropical ricefields (Malaysia): 33
*Gelidium vagum*: 1123
*Gracilaria verrucosa*
Strain G-16: 169
*Macrocystis*
Alaskan waters: 1647
rotifers as live feed: 1011
*Salmo salar*
cage systems
Loch Tralaig (West Scotland): 884
*Streptocephalus proboscideus*
temperature optimum: 403
cyst production and survival: 403
use of processed microalgae
recent progress: 1612

**Aquatic deposits**
Po-210 determination for lead-210 dating: 476

**Aquatic ecology**
for paleolimnology: 1603
of rivers
deforestation effects: 593

**Aquatic hyphomycetes**
sulphur spring
India: 287

**Aquatic insects**
communities
influence of disturbance: 48
density
submerged undercut banks
subalpine meadow stream: 1417
drift
longitudinal movement
composition and diel periodicity: 141
rates
pools of mountain stream: 1072
hyporheic
distribution: 1111
seasonality: 1111

**Aquatic invertebrates**
see also different other groups
processing and sorting
time cost
regression models: 309

**Aquatic macrophytes**
*Ceratophyllum demersum*
litter decomposition: 157
chemical composition
Lobo Reservoir (Brazil): 103
contribution to particulate organic matter
streams: 53
effect of eutrophication: 1738
*Eichhornia crassipes*
seasonal production of detritus: 1392
fresh and decomposing condition
edibility to invertebrate herbivores: 1666
*Hydrilla verticillata*
growth and propagule production: 1631
importance to trophic status
Loosdrecht lakes (The Netherlands): 1047
in relation to amphipod populations: 1213
submerged forms
biomass density vs plant growth form: 443

**Aquatic toxicity testing**
nutritional status of test organism: 965

**Aquatic toxicity**
bioassays and bioconcentration tests
toxicant kinetics information
review: 1102
effect of tebuthiuron on productivity: 1693

**Aquatic habitats**
role of bacteria in sediments
review: 1144

**Aquatic Oligochaeta**
see also Oligochaeta
*Tubificoides amplivasatus*
population dynamics
Oresund (Denmark): 492
pollution impact
James River Estuary (USA, Virginia): 422

**Arabian peninsula**
freshwater molluscs
Yemen Arab Republic: 24

**Arachidonic acid**
derivatives
from red marine algae
new algal metabolism: 608

**Aragonite**
shell mineralogy
Littorinidae: 1690

**Arbacia**
ingestion
seaweed survival: 1269

**Arctic grayling**
planktivorous feeding
simulation model: 1256
spawning
Beaverlodge River (Alberta): 270

**Arctic limnology**
access pipes
water sampling beneath thick ice: 899

**Arctic**
biogeochemistry and zoogeography
lakes and rivers
Alaska: 905
chironomid assemblages
comparison with alpine assemblages: 1796
ecosystem control mechanisms
limnocorral experiment
Toolik Lake (USA, Alaska): 1257
ecosystem
effect of fish predation
on larval chironomid communities: 643
epilithic diatom community
response to phosphate fertilization
Kuparuk River (Alaska): 1142
flux of $CO_2$ and $CH_4$
from lakes and rivers (Alaska): 904
*Kellicottia longispina*
morphological variation: 468
Kuparuk River (Alaska)
fertilization
effects on *Baetis* drift: 758
nitrogen and phosphorus
concentrations and export: 1329
littoral invertebrate community structure
effect of predation by *Cottus*: 369
LTER lakes
microplankton community structure
bottom-up regulation: 1464
North America
Rotifera

composition and distribution: 299
sediment chemistry of iron
effect of light and nutrient addition
Lake N-2 (Alaska): 1662
streams
seasonal temperature patterns: 803
cation export from watersheds: 348
Toolik Lake
biogeochemistry of sediments: 350
cost of predation avoidance
in young-of-year lake trout: 1109
silicon budget: 349
Toolik Lake region (Alaska)
predation by lake trout and round whitefish
on mulluscs: 1133
*Cottus cognatus* populations
effect of piscivorous predators: 716
Truelove Lowland (Canada, Devon Island)
paleolimnology: 898
tundra stream (Alaska)
photosynthesis and respiration
by epilithic community: 209
upper Kuparuk River (Alaska)
water and sediment export: 925

**Arctodiaptomus (Rhabdodiaptomus)**
*michaeli* n.sp.
Kashmir (India): 1395

**Areal quantum efficiency**
of photosynthesis
relationship with phytoplankton growth
efficiency: 632

**Argulosis**
effect on growth and production
*Cyprinus carpio*: 1579

**Argulus**
*indicus*
effect on growth and production
*Cyprinus carpio*: 1579

**Aristichthys**
*nobilis*
food assimilation: 1277
filtering rate: 1277
plankton grazing: 1151

**Arius**
*felis*
diel activity
sublethal effects of copper: 1642

**Arsenic**
accumulation
oligochaetes: 1477
from arsenobetaine in sediments
cycle: 704
water-sediment transport: 347
lake sediments
inventories
Adirondack region (USA): 860

**Arsenobetaine**
degradation
to inorganic arsenic: 704

**Artemia**
biology
in relation to cestode parasitism: 43
culture
in mangroves: 1389
in organic and agricultural wastes: 115
*franciscana*
growth model: 9
distribution
Algeria: 1884
Greek strains
biometry: 1
caloric content and fatty acid profiles: 1
cyst hatching: 1
*monica and A. urmiana*
genetic characterization: 8
intra-generic relationships: 8
*monica*
cyst production and recruitment: 379
populations from Northern Greece
genetic polymorphism: 2
populations
characterization
by isoelectric focusing: 1225

**Artificial habitats**
rate of colonisation by epifauna: 466

**Artificial sporeling production**
*Gelidium* in China
review: 511

**Artificial**
salmonid eggs
use
washout depth and drif distance: 361
stocking
of fall-fingerling Atlantic salmon
in lakes: 1323
substrates
baskets for benthos: 1081
macroinvertebrates
effect of power peaking flows: 1724
occurrence of Amphipoda: 29
periphyton
effect of disturbance: 10
stygobiont crustaceans: 1080

**Artisanal fishery**
Kilifi coral reef (Kenya): 1255

**Arylsulphatase**
sulphate reduction
Lake Kinneret (Israel) sediments: 689

**Ascophyllum**
harvesting
ecological impact
northwest Atlantic: 1561
*nodosum*
effect of liquid extract
on spider mite control: 711

**Asellus**
*aquaticus*
effects of heavy metals: 1138
growth
utilization of grass carp faeces: 1333

**Asexual reproduction**
*Convolutriloba retrogemma*: 742
*Microstomum lineare*: 1296
rate
*Corynactis californica*: 285
*Sagartia elegans*
effect on population structure: 1563

**Asia**
Pitchavaram mangals (S.E. Indian coast)
microphytoplankton
species composition and density: 864

**Asia, Bays**
Jiaozhou Bay (China)
marine Oligochaeta: 491
Nanwan Bay (Taiwan)
alcyonacean corals
distribution and adaptive strategies: 376
Possjet Bay (Japan Sea)
caprellid amphipods
eco-physiological characteristics: 1764
Tokuyama Bay (Japan)
mercury pollution: 1218

**Asia, Coasts**
Ohori (Korea)
large brown algae
growth and size distribution: 909
Red Sea Coast (Saudi Arabia)
marine habitats
impact of human activity: 28

**Asia, Estuaries**
Merbok Estuary (Malaysia)
stratification
intratidal fluctuations: 1732
Yoshii River estuary (Japan)
sedimentation of suspended solids
simulation model: 1219

**Asia, Gulfs**
Arabian Gulf
seagrass ecology: 1364
Jordan Gulf of Aqaba (Red Sea)
*Callichirus* burrows
organic matter distribution: 1765
northern Arabian Gulf
nickel sorption and speciation: 1476
Northwest Arabian Gulf
Kuwaiti fisheries
coastal environmental impact: 855

**Asia, Lagoons**
Gamo Lagoon (Japan)
chlorophyll budget: 893

**Asia, Lakes**
Aral Sea
Cladocera
salinity tolerance: 26
morphology of osmoregulatory organs: 26
ecosystem
long-term changes: 27
Bafra Balikgölü (Turkey): 682
*Ilyocryptus samsuni* n.sp.
Chinese and Mongolian saline lakes
limnological overview: 1850
Dal Lake (India, Kashmir)
mechanical deweeding impact: 1892
Dead Sea (Israel)
heavy metal concentrations
coprecipitation with halite: 1653
East Lake (China, Wuchang)
biomanipulation
use of planktivorous fish: 1151
Kashmir lakes (India)
calcite supersaturation: 921
Lake Baikal
spread of *Elodea canadensis*: 922
Lake Biwa (Japan)
phytoplankton size spectra
spatial changes: 1727
water blooms
of cyanobacterial picoplankton: 1030
water quality
effect of low water levels: 941
Lake Chenhu (China, Hanyang)
seston composition and dynamics: 1824
Lake Chuzenji (Japan)
settling matter characteristics
role in nutrient cycles: 572
Lake Honghu (central China)
sedimentary features: 252
evolutionary history: 252
Lake Kasumigaura (Japan)
emergence of Chironomidae: 808
*Neomysis intermedia*
food source evaluation
use of $^{15}N/^{14}N$ ratios: 1714
Lake Kinneret (Israel)
cilates
species composition and distribution: 1027
decreased salinity effects: 637
fish population size
acoustic assessment: 1802
*Mirogrex terraesanctae* larvae
feeding habits
field study: 83
experimental study: 85

phosphorus mobility
interstitial waters of sediments: 1641
*Rhodopseudomonas* and *Chlorobium* bloom: 251
sulphate reduction in sediments: 689
*Tilapia zillii*
nesting and courtship behaviour: 243
zooplankton community
long-term changes: 638
Lake Nakanuma (Japan)
carbon and nitrogen uptake
rates: 1153
neutral sugars and amino acids
of particulate matter: 1152
Lake Numasawa (Japan)
rotifers
in natural and disturbed conditions: 1661
Lake Sevan (northwest Armenia)
phytoplankton
in relation to eutrophication: 1307
Lake Suwa (Japan)
*Coregonus lavaretus maraena*
predation effects on zooplankon: 706
impact on nutrient levels: 809
impact on phytoplankton and zoobenthos: 809
Lake Teganuma (Japan)
linear alkylbenzenesulphonates
sediment-water exchange: 40
Lake Toba (Indonesia, Sumatra)
*Diaphanosoma modigliani*
redescription: 915
Lake Yunoko (Japan)
*Daphnia* population
significance of low oxygen layer: 708
Poyang Lake (China)
heavy metal partitioning
in sediments: 298
Qilu Hu (China)
sediment geochemistry: 220
Sambhar and Didwana lakes (India)
comparative limnology: 815

**Asia, Mangroves**
Coringa mangrove (India)
structure and species distribution: 81
Kodiakkaraj mangrove (India)
methanogenic bacteria
in sediments: 1156
of N.W. Sri Lankan coast
net primary production: 41
structural properties: 42
Muthupet mangrove (India)
present status
impact of past management practices: 82

**Asia, Man-made made water bodies**
Ishitegawa Dam
Nomura Dam Reservoirs (Japan)
algal P-nutrition: 861
Netofa reservoirs (Israel)
biological control
*by Hypophthalmichthys molitrix: 988*
Ogochi Reservoir (Japan)
zooplankton community: 1734

**Asia, Ricefields**
Malaysian ricefields
microcrustacean and rotifer communities: 32
rice fields in Parit Buntar (Malaysia)
fish culture: 33

**Asia, Rivers**
endangered ecosystems
conservation status of tropical rivers
review: 444
Kallar River (S India)
stream pools
invertebrate distribution: 71
Katun river (West Siberia)
mercury pollution: 1663
Langat River (Malaysia)
heavy metals: 1505
Linggi River (Malaysia)
diatom community
species diversity
effect of pollution: 1223
heavy metals: 1506
organic micropollutants: 1506
Pearl River (China)
*Amniclineus zhujiangensis* n.gen. n.sp.: 612
River Dana
faunal relationships
with abiotic factors: 406
Xiangjiang River (China)
heavy metals
geochemical characteristics: 1565

**Asia, Seas**
Honshu (Japan)
Laminariales: 1252
Red Sea
deep chlorophyll a maxima
measurement: 715

**Aspitrigla**
*cuculus*
feeding habits: 1164

**Asplanchna**
predation on *Brachionus*
influence of pery diet: 1639

**Assemblages**
Cladocera
long-term qualitative changes
Popradské pleso lake (Czechoslovakia): 1790
sedimentary diatoms
Lake Tanganyika (Burundi): 257

**Assessment**
application of bioassays
single- and multi-species studies
review: 1046
ecological and socioeconomic values

Caribbean mangroves: 87
extremely polluted sediments: 1584
of contaminated sediments
benthic communities: 1415

**Assimilation**
efficiency
*Acanthodiaptomus denticornis*: 950
*Cyclops vicinus vicinus*: 950
Cladocera: 952
*Keratella cochlearis*: 954
*Keratella quadrata*: 954
*Kellicottia longispina*: 954

**Associatum**
compositional diversity
modelling: 858

**Astaxanthin**
microalgal incorporation
in artificial diets
aquaculture: 1612

**Asterionella**
*formosa*
bioassay
seasonal nutrient limitation: 105
feeding interference
with *Bosmina longirostris*: 97

**Athalassic**
inland lake (Spain)
burrowing beetles
agents of bioturbation: 588
saline waters (southern Africa)
chemical and biological features: 1541
standing waters (Greenland)
physical features: 1851
chemical features: 1851
biological features: 1851

**Atlantic salmon**
fall-fingerling in lakes
evaluation of quality: 1323
newly-emerged fish
territory size and distribution: 685

**Atmospheric deposition**
heavy metals
in lake sediments
inventory: 860

**Atmospheric pollution**
levels
Coringa mangrove (India): 81
chemical changes in lake sediments: 1250

**Atomic absorption spectrophotometry**
metal concentrations in sediment and biota: 364

**ATP**
content
in relation to phytoplanktonic size fractions
Lake Aydat (France): 30
for estimating
physiological state of phytoplankton: 757
steady-state level determination
bioassay
acidified lakes: 1335

**Atrazine**
levels
conduit vs diffuse springs
karst region (USA, Minnesota): 113
effect on planktonic systems: 959

**Attenuation coefficient**
turbidity of Oosterschelde (The Netherlands): 1826

**Attractant**
short-chain carboxylic acids
to pulmonate snails: 377

**Aufwuchs**
Lake Malawi (Africa): 688

**Aurelia**
*aurita*
attraction to *Artemia* prey: 61
ephyrae
rhopalium development: 1628
scyphistomae
isolated tentacles
polyp regeneration: 984

**Australia**
intertidal and subtidal marine habitats
algal assemblages: 1733
species richness
tropical freshwaters: 1567
*Macrobrachium handschini*
redescription: 237

**Austropotamobius**
*pallipes*
impact of crayfish plague: 1088
infection by *Aphanomyces astaci*: 1089

**Austrosimulium**
*bancrofti* larvae
substrate colonisation
Brisbane River (Australia): 96
*furiosum*
water velocity preferences: 779

**Autochthonous**
inputs
southern Ontario streams: 1456

**Autochthonous matter**
role in nutrient cycles

Lake Chuzenji (Japan): 572

**Autodiploidization**
life history
*Boergesenia: 158*
*Valonia: 158*

**Axillary turion**
*Hydrilla verticillata*
growth and propagule production
axillary vs subterranian turions: 1631

**ß-carotene**
*Dunaliella salina*
mass-culture: 1181
from processed microalgae
for culture animals: 1612

**Bacillus**
mortality of mosquito larvae: 99

**Bacteria**
activity
recognition by ETS activity
method: 448
sedimented mussel deposits: 651
as food for *Daphnia*: 728, 1735
as P source for zooplankton: 751
as prey to *Pseudocohnilembus*
chemoattraction: 1606
biomass and growth
in sediments
estimation: 1144
count
in relation to *Chironomus* larvae: 1492
density in polluted sediments
Humber estuary (England): 112
direct counts
dormancy: 447
distribution
sediment-water interface
oxygen and Eh profiles: 523
ecology
Calder Lake (USA): 1817
ectoenzyme production: 307
effect of contaminated sediments: 1157
enzyme activity
river sediments: 1818
food for *Streptocephalus proboscideus*
in culture: 403
growth
effect of dissolved organic matter: 1730
for measurement of DOC: 762
heterotrophic activity
Roskilde Fjord (Denmark) sediment: 536
in epilithic biofilms: 110
in relation to extracellular enzymes
polyhumic lake: 1206
methods: 447
$N_2$ fixation in sediments
Lake Naivasha (Kenya): 1215
north temperate vs
south temperate streams (USA): 1188
populations
Mississippi River (USA): 743
production and respiration
effect of dissolved organic carbon: 749
production
enclosure study
Lake Balaton (Hungary): 1687
humic lakes: 862, 1487
relationship with *Abramis* biomass
Lake Balaton (Hungary): 1688
role in planktonic food chains
saline meromictic lake: 696
seasonal changes in aminocids and DOC:
1440
response to organic inputs
marine subantarctic area: 411
role in carbon production
and nutrient regeneration
pelagic zone: 267
secondary production
relationship with primary production: 1060
temporal distribution
in sediment: 558

**Bacterial assays**
toxicity assessment
comparison: 1410

**Bacterioneuston**
freshwater pond
diel cycle: 1041

**Bacteriophage**
stimulation of bacterial cytokinesis: 958

**Bacterioplankton**
abundance biomass and production
Pareloup reservoir (France): 972
active and dormant or dead cells
distinction
ETS activity method: 448
biomass and activity
seasonal relation to phytoplankton: 596
biomass and dark fixation of inorganic carbon
polyhumic lake (Finland): 944
dynamics
oligo- and eutrophic waters: 162
in Rift Valley lake
Lake Awasa (Ethiopia): 1131
metabolism of dissolved organic matter: 1721
role in productivity
and cycling of organic matter
eastern Pacific Ocean: 1621

**Bacterivory**
microflagellates
Kentucky Lake (USA): 1360
feeding behaviour of *Spumella*: 767

**Baetidae**
*Cloeon triangulifer*
egg hatching and nymphal survival
effect of calcium, aluminum and pH: 1672
*Baetis*
drift patterns and population density
effect of river fertilization: 758
in woodland stream
mine drainage pollution: 1586
leaf litter colonisation: 168

**Bag experiments**
maintenance of *Anabaena* inoculation
in acid lake: 1839

**Barium chromate**
for colorimetric determination of sulphate
freshwaters: 629

**Barnacles**
*Savignium milleporum*
symbiotic relationship
with *Millepora dichotoma*: 337

**Batch culture**
*Brachionus plicatilis*
nitrogen flow: 1217
bioassay
phytoplankton
effect of wastewater on productivity: 983

**Bathycamptus**
*eckmani* n.gen. n.sp.
from San Diego Trough (USA): 798

**Bathyepsilonema**
*anulosum* n.sp.: 1771

**Bathymetry**
map
Lake of Banyoles (NE-Spain): 1165
distribution
naidid and aeolosomatid oligochaetes
Lake Päijänne (Finland): 1504
of Lake Patzcuaro (Mexico): 1717

**Batrachospermum**
*boryanum*
reproductive ecology
temperate headwater stream: 697
distribution and seasonal dynamics
Preto River basin (Brazil): 1227

**Batracobdelloides**
*tricarinata*
redescription: 1276

**Battery of screening tests**
ecosystem health assessment: 1195

**Bdellocephala**
embryos
SEM study of syncytium: 1481
*brunnea*
penis
de- and re-differentiation: 938

**Bdelloidea**
*Macrotrachela quadricornifera*
comparison of strains
isoenzymatic patterns: 1289
life-history traits: 1420
moss population
temporal analysis
clonal structure: 1421

**Beaver**
dams
effect on porewater flowlines: 1832

**Bed load**
computation
in relation to sediment transport: 1356

**Bed material load**
prediction
in relation to sediment transport: 1356

**Bed permeability**
reduction
effect of clay discharges
streams: 1373

**Behaviour**
*Arius felis*
sublethal effects of copper: 1642
*Carybdea sivickisi*: 730
*Chironex fleckeri*
early life stages: 729
feeding in corals
physiological control
review: 973
infected *Austropotamobius pallipes*: 1089
*Oncorhynchus*
effect of pulp mill effluents: 172
skeletal muscles
Rotifera: 321
swimming
bactivorous ciliate: 1606

**Behavioural refuges**
for herbivores
biomanipulation: 1558

**Belehrádek's equation**
embryonic development duration
freshwater copepods: 465

**Belgian biotic index method**
proposal for modification: 149

**Bell jars**
ammonium realease from sediments: 1773

**Belostomatidae**
*Diplonychus rusticum*
feeding: 445

**Benthic boundary layer (BBL)**
in relation to resuspension
Lake Päijänne (Finland): 797

**Benthic chambers**
*in situ* determination
heavy metal fluxes: 311

**Benthic fluxes**
heavy metals

at sediment-water interface: 311

**Benthic particulate organic matter**
dynamics
prairie streams (USA, Texas): 753

**Benthic samples**
aid to separate invertebrates
centrifugal flotation: 363

**Benthivorous fish**
reduction
increase in transparency
biomanipulation: 1125
removal
for effective biomanipulation
overview: 957

**Benthos**
abundance and distribution
hydroids
Twin Cays mangrove (Belize): 256
accumulation of sediment-bound trace elements
controlling processes: 1013
Algae
response to nutrient enrichment
along pH gradient: 273
aquatic oligochaetes
pollution impact
James River Estuary (USA): 422
biological indices
water quality evaluation
tributaries: 534
biology
long-term studies
Tees bay and Tees estuary (N.E. England): 1568
biomass
relationship with allochthonous organic inputs
submarine cave: 530
transfer
black-water river (Amazon Basin): 1797
Tyrrhenian Sea (Italy): 326
ciliates
species composition and distribution
Lake Kinneret (Israel): 1027
communities
ecology
Gulf of Gaeta (Tyrrhenian Sea,Italy): 527
community structure
in relation to sediment contamination: 248
impact of *Coregonus* predation
Lake Suwa (Japan): 809
impact of DDT contamination: 1815
composition and sesonality
Naro Moru River (Kenya): 1081
diatom assemblages: 1791
distribution
riffle-pool geomorphology: 241
effect of pulp and paper mill discharges
La Trobe River (Australia): 722
effects of salinity
tidal currents and sediment type
Humber estuary (England): 112
*Hexagenia limbata*
secondary production
relationship with chlorophyll content: 1822
invertebrate community
distribution
along turbidity gradient
Lake Temiskaming (Canada): 1484
in prairie saline lakes (Canada): 702
effect of predation: 369, 1178
effect of sediment stability: 1178
effect of food availability: 1178
impact of clay discharges
streams: 1373
impact of insecticide treatment
headwater stream: 1799
littoral zone
respiration: 698
riffles versus pools: 234
stream flow and predation effects on spatial dynamics: 960
lotic environments
transverse zonation: 1056
macroalgae
seasonal distribution and abundance
Little River (USA, North Carolina): 498
macroinvertebrate community
composition and abundance
Carter Lake (USA): 1862
colonisation and succession
Arcadia Lake (USA): 116
community structure
assessment with Surber vs kick samples
streams of south-western Australia: 1656
composition and production
Lake Thingvallavatn (Iceland): 997
density and diversity
use of order-specific water criteria: 367
effect of trout farm effluents
Río Tajuña (central Spain): 264
intermittent streams
Australia: 207
seasonal dynamics
Ardèche River (France): 436
vertical distribution
riverine mud: 976
Nematoda
associations and distribution: 1728
predation by *Cottus cognatus: 1110*
predation on zooplankton: 1535
Protozoa
Esthwaite (U.K.,Cumbria): 974
sediment bioassays: 1415
sediment toxicity testing: 385
snails
predation by lake trout and round whitefish
arctic lake: 1133
submerged undercut banks
subalpine meadow stream: 1417

**Benzo(a)pyrene equivalents**
in brown bullhead bile
PAH exposure: 845

**Berzelia**
*lanuginosa and Elegia thyrsifera*
leaching
laboratory experiment: 1390

**Between-year variations**
stream invertebrate community
effect of abiotic and biotic factors: 1457

**Bibliography**
cnidarians and ctenophores (1961-1990)
collective works: 1849
of Deevey, E.S.: 1601

**Bile**
brown bullhead
benzo(a)pyrene equivalents: 845

**Bilharziasis**
snail intermediate hosts
from Yemen Arab Republic: 24

**Binary modelling**
compositional diversity: 858

**Bioaccumulation**
chlorobenzenes
by *Poecilia reticulata*
effect of suspended sediments: 1532
sediment metals: 924

**Bioassay**
atrazine
acute and sublethal toxicity
*Daphnia*: 959
copper contamination
oysters: 1866
effect of wastewater on lake productivity
phytoplankton batch cultures: 983
growth inhibition
*Colpidium campylum*: 425
phenolic acids
*Chlorella pyrenoidosa*: 967
phosphate demand in phytoplankton: 1335
phosphorus availability
phytoplankton bioassay: 174
physiological productivity
nutrient relationships: 1001
phytotoxicity of glyphosate
*Lemna minor*: 1004
phytotoxicity of sulfonylurea herbicides
turnip seedlings: 1382
polluted marine sediments
intertidal colonising organisms: 1090
research
role of microbial metal resistance
detoxification mechanisms: 1722
sediment chronic toxicity
*Hyalella azteca*: 196
sediment contamination
benthic communities: 1415
sediment toxicity
Toronto (Ontario) vs Toledo (Ohio)
phytoplankton bioassay: 1199
techniques
role and application
in impact assessment and decision-making
review: 1689
toxicity of cadmium vs thallium
*Lemna minor*: 1602
acute toxicity of Al-waste/soil extracts
photosynthetic rate
*Chlorella pyrenoidosa*: 1681
seed germination and root elongation
*Brassica parachinensis*: 1681
acute responses to sediment toxicity
Hamburg harbour (Germany): 18
algal growth potential tests
application
canals and lakes
western Netherlands: 902
ecosystem health assessment: 1195
environmental chemicals
enchytraeids: 1452
hypothesis formulation and testing
deterministic model approach: 1102
nutrient limitation
*Asterionella formosa* and *Rhodomonas lacustris*
comparison: 105
by nutrient bioassay tubes: 1142
objective selection of sensitive organisims: 652
organic pollution in waters
continuous algal cultures: 1416
oxygen consumption
*Libellula julia*: 1448
phosphate limitation for phytoplankton
comparison with phosphate uptake
experiments: 1745
problems of choice and implementation: 262
role in pollution control: 1021
scientific basis
overview: 254
sediment contamination
using bacteria, algae and higher plants
comparison: 17
sediment elutriates
microorganisms
St. Lawrence River (Canada): 1591
sediment resuspension
small aquatic organisms: 1528
sediment toxicity
algal and nematode bioassays: 655
*Lumbriculus variegatus*: 414
toxicity of small sediment samples
phytoplankton: 1192
toxicity testing
advantages of planarians: 156
phytoplankton
Great Lakes (Canada/USA)

overview: 1193
use
in risk prediction to ecosystems: 1043

**Bioassesment**
toxicity testing with phytoplankton
Great Lakes (Canada/USA)
overview: 1193
of dredging and disposal activities
Toronto Harbour (Canada): 1196

**Bioavailability**
copper
Patuxent River (USA, Maryland): 1866
heavy metals: 260, 945
metal ions
relationship with toxicity to bacteria: 1410
metals
uptake rate
by dialysis chambers: 1173
mercury
anoxic conditions: 1240
sediment contaminants: 1415
sediment-bound trace elements
determination: 1013
sediment metals
to tubificids: 683

**Biocentration**
bioassays
basic concepts and assumptions
review: 1102
lindane and deltamethrin
*Rana temporaria* tadpoles: 1707
*Gambusia affinis*: 1707

**Biochemical**
assays
PHB content
methylotrophic bacteria: 1238
systematics
*Littorina*: 1809
tests
battery of screening tests technique: 459

**BIOCLIM**
computer programme
bioclimatic prediction maps: 1854

**Bioconversion**
European projects
macroalgae: 1162

**Biodeposit**
remineralization and contribution to nutrient fluxes
sediment-water interface: 117

**Biodeposition**
rate
*Lampsilis radiata siliquoidea*
Lake St. Clair (Canada/USA): 1220

**Bioenergetics**
*Brachionus angularis*
effect of temperature: 1807
model
*Coregonus albula*
Lake Pyhäjärvi (SW Finland): 741
young-of-year lake trout
arctic lakes: 1109

**Biofilms**
exoenzyme accumulation: 1580
food source
for interstitial animals: 110

**Bioflavor**
by regeneration of protoplasts
*Ulva*: 568

**Biogenic**
silica cycling
Lake Toolik (Alaska): 349

**Biogeochemistry**
aquatic environments
role of organic compounds: 885
Bou Regreg Estuary (Morocco): 297
ground water
riparian zone: 752
lake sediments
effect of acid rain: 995
lakes and rivers
arctic Alaska: 905
of humic substances
impact of environmental changes: 394
saline lakes
Basotu Lake District (Tanzania): 894

**Biogeography**
*Diaphanosoma mongolianum*
*D. brachyurum*
Spain: 827
*Mesopodopsis aegyptia* n.sp.
*M. tropicalis* n.sp.
*M. wooldridgei* n.sp.
Mediterranean: 1860
*Brachionus* spp.
Reconquista River (Argentina): 936
brackish-water platyhelminths: 79
*Branchipus cortesi* n.sp.
western Spain: 38
calanoids
*Tropodiaptomus asimi* n.sp.
West-Darfur (Sudan): 454
Chydoridae
Ireland: 449
*Cyanea*
Long Island Sound (USA): 224
*Diaphanosoma senegal*: 916
diatoms
salt lakes and playas
northern and southern hemisphere: 178

*Discoplana*
Viti Levu (Fiji): 1676
*Dugesia sanchezi*
Argentina: 1166
equilibrium island theory: 1105
Iberian Cladocera
in relation to regional limnology: 37
marine Oligochaeta
Jiaozhou Bay (China): 491
*Kellicottia longispina*: 468
Lessoniaceae: 302
*Littorina* spp.: 1403, 1141
*Pentacoelum hispaniensis*
Spanish freshwaters: 1592
*Polycelis (Seidlia) auriculata*: 880
*Polysiphonia breviarticulat*: 869
*Rhodalia miranda*
south-west Atlantic: 1431
Rotifera
Mali (West Africa): 398
recent approaches: 920
Tasmania: 1566
western Sudan: 399
seaweeds
Namibian coast: 1159
*Testudinella*
northeastern India: 1559
*Triops australiensis*
Australia: 1854
West Asiatic *Onychogomphus* spp.: 453

**Biography**
of Dr Marcus, Ev.: 351

**Bioindex**
zoobenthos
for lake pollution assessment: 866

**Bioindicator**
see also Indicator organisms
microcrustaceans
Swedish waters: 150, 151

**Biological activity**
herbicide residues: 1382

**Biological assessment methods**
in Belgium
proposal for modification: 149

**Biological clocks**
control of diel periodicity
in phytoplankters: 1363

**Biological control**
blue-green algae
silver carp
Netofa reservoirs (Israel): 988
mosquito larvae
*Bacillus thuringiensis* var *israelensis*: 99
mosquitoes
mosquitofish: 176

**Biological effects**
of salinity
rivers and wetland ecosystems (Australia)
review: 724

**Biological filter**
*Dreissena polymorpha*: 1400

**Biological indices**
Diatom community
water quality assessment: 1223
macroinvertebrates
water quality evaluation: 534

**Biological interactions**
role in structuring macroalgal assemblages
Northwest Atlantic: 290

**Biological markers**
lipid components in sediments: 357

**Biological monitoring**
nitrifying bacteria: 199
valve movement response of mussels: 923

**Biological limnology**
trends
in Finland: 1507

**Biology**
*Sargassum*: 1726
*Tanymastix stagnalis*: 647

**Bioluminescence**
deep-water anthozoans: 746
propagation
*Euphysa japonica* hydromedusae: 1025

**Biomanipulation**
addition to nutrient control
lake restoration: 784
applicability
to subtropical eutrophic lakes (USA): 358
biomass levels
Lake Bleiswijkse Zoom
Lake Zwemlust (The Netherlands): 91
blue-greens as food for zooplankton
overview: 392
by fry communities
Sulejow Reservoir (central Poland): 1883
by introduction of *Daphnia magna*: 1697
control of phytoplankton blooms
coastal lagoons (Spain): 331
cyanobacteria blooms
by large-bodied *Daphnia*: 624
by roaches: 887
*Cylindrospermopsis*
by *Hypophthalmichthys molitrix*: 1640
definition: 636
development in Norway
review: 964
drainable ponds

by cyprinid fish: 1126
effect on chlorophyll and water clarity: 1120
effect on transparency of lake water: 1125
effects on phyto- and zooplankton relationships: 274
enclosure studies
bottom-up effects of *Abramis brama*: 1688
eutrophic ditches
North Holland: 787
experiment
effect on lake restoration
Lake Breukeleveen (The Netherlands): 1742
Frederiksborg Slotsso (Denmark): 1430
food-web dynamics
Lake Gjersjoen (Norway): 501
Hjarbaek Fjord (Denmark)
by whitefish stocking: 1388
impacts of bleak and roach
Lake Vesijärvi (Finland): 781
implications for zoo- and phytoplankton linkages: 484
in London reservoirs (U.K.)
review: 457
in relation to artificial and natural water bodies: 636
in relation to biological control: 636
induction of oligotrophication
Lake Mosvatn (Norway): 1493
influence on structure and grazing activities zooplankton
Dutch lakes: 675
Lago di Candia (Northern Italy)
macrophyte harvesting: 581
Lake Klein Vogelenzang (The Netherlands)
fisheries management: 1741
Lake Zwemlust (The Netherlands)
hydrophyte-macroinvertebrate interactions: 912
mesocosm study
Lake Vesijärvi (southern Finland): 780
next phase
review: 1558
Onondaga Lake (USA, New York)
by piscivorous fish: 74
phytoplankton density control
by large- vs small-bodied zooplankton: 391
plankton and turbidity response
Lake Christina (USA, Minnesota): 717
potential of artificial refugia
for large-bodied Cladocera: 804
reduction of planktivorous fish production: 663
restoration of hypertrophic lake
Lake Zwemlust (The Netherlands): 1744
retrospective and future development
review: 635
shallow macrophyte-dominant lakes: 1176
use of *Dreisenna polymorpha*: 1401, 1859
use of planktivorous fish
East Lake (China, Wuchang): 1151
use of macrophytes
Lake Zwemlust (The Netherlands): 1287
water quality improvement: 623, 1618
water residence time: 636
whole-lake experiment
Danish lakes: 834, 835
Lake Zwemlust (The Netherlands: 1743
'natural experiment'
Lake Mendota (USA, Wisconsin): 1760

**Biomass density**
tool in quantitative analysis
submerged macrophyte community: 443

**Biomass**
algae
temporal variability
effect of latitudinal gradients: 123
amphipods living on macrophytes
Lake Balaton (Hungary): 1213
aquatic macrophytes
Loosdrecht lakes (The Netherlands): 1047
bacterioplankton
Lake Créteil (France): 595
polyhumic lake (Finland): 944
benthic algae
effects of acid wastes: 184
*Brachionus plicatilis*: 1882
Bryozoa
Meuse River (Belgium): 744
ciliates
Florida lakes (USA): 122
*Crassostrea gigas: 201*
crustacean plankton
effect on water transparency: 778
*Daphnia hyalina*
Tjeukemeer (The Netherlands): 955
diatoms
in limestone stream: 1475
dry weight
seaweed resources
Spain: 680
*Eichhornia crassipes*
Lake Apopka (USA, Florida): 1392
*Eucheuma denticulatum*
comparison with
*Kappaphycus alvarezii*: 1725
fish
postimpoundment study
Warta River (central Poland): 1317
fluctuation
plankton crustacea
Broa reservoir (S.P.-Brazil): 1085
freshwater macrofauna
Yemen Arab Republic: 25
*Gelidium pristoides*: 49
hard vs soft substrate fauna
Oosterschelde estuary (The Netherlands): 980
macroalgae
bioconversion experiment
Saint-Cast-Le-Guildo (France): 1162
*Micronecta scutellaris*: 315
*Mirogrex terraesanctae*
in relation to inflow
Lake Kinneret (Israel): 961

molluscs
Lake Zegrzynskie (Poland): 1636
*Nymphaea tetragona*: 939
of fish
Warta River (Poalnd): 1318
of cell
Anthozoa: 768
periphyton
effect of fetch: 282
phyto- and bacterioplankton
seasonal coupling
Lake Créteil (France): 596
phyto- and zooplankton
Lake St. Clair (Canada): 1194
phytoplankton
shallow lakes
central Europe: 1788
picoplankton: 1679
*Prochilodus platensis*: 344
rotifers: 1310
seagrass
Arabian Gulf coast: 1364
seaweeds
northern Adriatic: 1202
size-fractionated phytoplankton
Canadian Shield lakes: 947
*Streptoceplalus macrourus*: 1150
transfer
in benthos
black-water river (Amazon Basin): 1797
zooplankton
reduction
long-term changes
Lake Kinneret (Israel): 638

**Biomes**
along rivers
spatial distribution
of macroinvertebrates: 345

**Biometry**
*Brachionus plicatilis*
resting eggs: 1554
cysts, nauplii and adults
Greek *Artemia* strains: 1
*Halocordyle disticha*: 1575

**Biomonitoring**
lotic systems
macroinvertebrate community structure
kick vs Surber sampling: 1656
of pulp and paper mill effluents
animal communities
La Trobe River (Australia): 722
programmes
chironomid larvae: 924

**Biomonitors**
aquatic macrophytes
Lake Ontario
Bay of Quinte (Canada): 364

**Biomphalaria**
food selection: 1029

**Bionomics**
density dependence
*Tubifex* cohort cultures: 191
invertebrates
*Potamogeton* bed
California marsh: 140
*Batracobdelloides tricarinata*: 1276

**Biosedimentation**
of natural particulate matter
role of *Crassostrea gigas*: 418

**Biostratigraphy**
Chironomidae and Cladocera
maar lakes (Germany/France): 765

**Biotechnology**
seaweeds: 1409

**Biotic diversity**
for compositional diversity
modelling: 858

**Biotic index**
for water quality assessment
Belgian biotic index : 149
sampling strategy
for macroinvertebrate communities
rivers: 1450

**Biotic**
interactions
in microbial communities: 1104
factors
*Chironomus circumdatus* larvae
abundance: 1492

**Biotic-abiotic regulation**
meio- and macrofaunal density
tropical freshwaters (Venezuela): 1362

**Bioturbation**
by chironomids
effect on sediment pH and redox: 1598
effect on phosphorus dynamics: 1598
at sediment-water interface
review: 383
burrowing beetles
athalassic lake: 588
by *Nereis*
effect on phosphate flux: 317
effect on nutrient fluxes
sediment-water interface: 102
effect on particle redistribution
Mediterranean coastal sediment: 605
effect on redistribution of organic substances
in *Callichirus* burrows: 1765
effect on zinc uptake by lake sediments: 1623
in relation to sediment chronology: 1273

oxygenation effect
burrowing shrimp: 548

**Bipalium spp.**
karyology: 1268
*kewensse*
pharyngeal regeneration: 1571

**Birds**
levels and effects of contaminants
Detroit River (USA, Michigan): 1054
of St. Marys River (Canada/USA): 877
predation on Cnidaria
review: 73
predation on freshwater fish
Sovdeborgssjon Lake (Sweden): 1857

**Bivalvia**
*Ostrea puelchana*
reproductive strategies: 1171
checklist
Yemen Arab Republic: 24
*Dreissena polymorpha*
biological filter: 1400
*Lampsilis radiata siliquoidea*
role in phosphorus cycling
Lake St. Clair (Canada/USA): 1220
shape variation
*Alathyria jacksoni*: 95

**Black coral**
*Antipathes fiordensis*
skeletal growth rings
chemistry and structure: 626

**Black flies**
see Simuliidae

**Blackwater**
Ogeechee River and Black Creek (USA)
Protozoa
population dynamics: 271

**Bledius**
burrowing beetles
agents of bioturbation
athalassic lake: 588

**Bloom**
*Polysiphonia breviarticulata*: 869
Protozoa
Ogeechee River and Black Creek (USA): 271
*Oscillatoria agardhii*
Wolderwijd (The Netherlands): 139

**Blue gill**
effect on eutrophic pond community
mesocosm experiment: 441

**Blue-greens**
as food
for *Euchlanis dilatata lucksiana*: 474
for *Streptocephalus proboscideuse*: 403
blooms
control by large-bodied *Daphnia*: 624
fish kills
Nyanza Gulf
Lake Victoria (Kenya): 1264
formation dynamics: 1887
suitability as food for zooplankton
overview: 392
toxic blooms
in Finnish fresh and coastal waters: 1582

**Bluegills**
feeding behaviour: 84

**Boat**
water samples
helicopter-collected water samples
chemical analysis
comparison: 667

**BOD**
drop
effect of reduced effluent load
Lake Päijänne (Finland): 648
sediment metabolism: 1611
total and soluble water columns
eutrophic lake: 1549

**Body burdens**
of metals
in chironomid larvae
effects of age and body weight: 924

**Body plan**
Hydrozoa Scyphozoa and Anthozoa
evolution: 775

**Body size**
Australian centropagids
co-occurrence patterns: 1048
*Daphnia pulex* and *D. magna*
impact of *Chaoborus*: 888
effect of food limitation
rotifers and cladocerans: 456
effect on metal accumulation
by chironomid larvae: 924
*Euchlanis dilatata lucksiana*: 677
*Galaxias occidentalis*: 1316
in relation to number of eyes
*Polycelis*: 23
of Cladocera
growth of underyearling roach: 1324
size efficiency hypothesis: 1327

**Body wall**
*Halicryptus spinulosus*
ultrastructure
changes induced by hydrogen sulphide: 823
histochemistry
oligochaetes: 470
morphogenesis of muscle fibers

*Enchytraeus minutus*: 966
muscle organization
enchytraeids: 1739

**Boeckella**
co-occurrence with *Calamoecia*
in Australia: 1048
*triarticulata*
infection by Epistylis daphniae: 1871

**Boergesenia**
*forbesii*
life history: 158

**Bog lakes**
Tuesday Lake (USA)
fish population size
estimation: 736

**Boreal**
community
of brackish-water platyhelminths: 79

**Bosmina**
*coregoni*
predation by *Chaoborus*: 1648
*longirostris*
feeding interference
of *Asterionella formosa*: 97
population dynamics: 1079
predation by *Mesocyclops edax*: 821
production: 200
subfossil remains in sediments
Lake Constance (F.R.G.): 764
succession and morphometric changes
Lake Mondsee (Upper Austria): 1224

**Bottom shear stress**
wind-induced resuspension
shallow Swedish lake: 133
determination
Swedish lakes: 132

**Bottom-up effects**
London reservoirs (U.K.)
review: 457
arctic LTER lakes (Alaska): 1464
ecosystem control mechanism
Toolik Lake (USA, Alaska): 1257

**Box corer**
design improvement to Ekman grab: 180

**Box-jellyfish**
*Chironex fleckeri*
distribution and behaviour of early life stages:
729

**Brachionidae**
choice of substrate and habitat: 1313

**Brachionus**
*angularis*
bioenergetics
effect of temperature: 1807
*calyciflorus*
demography
effect of sublethal levels of endosulfan: 519
effect of pH: 1148
predation by *Mesocyclops* spp.: 1086
influence of cyanobacterial diet
on *Asplanchna* predation: 1639
*moronensis* n.sp.: 936
*plicatilis*
biomass and elemental composition: 1882
ecological genetics
Soda Lake (USA, Nevada): 1885
enriched with n-3 fatty acids
as live feed to fish larvae: 1271
growth
nutritional effect of freshwater Chlorella: 759
intensive chemostat culture: 816
life history characteristics: 917
molecular genetics: 896
resting eggs
size variation: 1554
tolerance to low oxygen: 495
*postcurvatus* n.sp.:936
*urceolaris reductispinis* n.ssp.: 936

**Brachyura**
food and feeding behaviour
*Tachypleus gigas* : 295
*Philyra globasa*
larval and post-larval development: 926

**Brackish water**
Lake Manzala (Egypt)
physical and chemical environment: 890
Crustacea
*Halicyclops* spp.
*H. hurlberti* n.sp.
from California (USA): 1443
platyhelminths
biogeography: 79

**Branchinecta**
*belki* n.sp.
from Mexico: 1032
*granulosa*
redescription
from Argentina: 327
*longiatenna*
uptake of Pb, Cd and Zn: 1154
*packardi*
hybridization
with *B. belki* n.sp.: 1032
taxonomy and zoogeography
Yugoslavia: 1332

**Branchiobdellida**
assignment to Hirudinea
review: 773

Branchiobdellidae
evolution: 226

**Branchiopoda**
*Branchinecta belki* n.sp.
Mexico: 1032
*Branchinecta granulosa*
Argentina: 327
Chydoridae
ecology and distribution:
Ireland : 449

**Branchipus**
*cortesi* n.sp.
western Spain: 38
*schaefferi*
indirect effect on mosquito larvae: 99
*serbicus* n.sp.
Yugoslavia: 1334
*sowerbyi*
experiment
with LAS-treated sediment: 278

**Breakwaters**
seaweed settlement: 1811

**Bream**
removal
lake restoration masure: 1741

**Breeding**
biology
*Procambarus clarkii*: 1274
*Clarias* spp.
Anambra River basin (Nigeria): 500
cycle
*Enchytraeus variatus*: 203
season
*Synodontis schall*
White Nile (Sudan): 695

**Bridges**
between paleolimnology and aquatic ecology:
1603

**Brine algae**
long-term community changes
effect of salinity decrease: 1649

**Brine shrimp**
distribution and abundance
effect of salinity decrease: 1649

**Brines**
evolution
saline lakes
Cariboo Plateau (Canada): 1407
solubility of oxygen
Dead Sea: 1242

**Brooding**
among anthozoans: 508

**Brook trout**
food selection
subalpine stream: 788

**Brown algae**
accumulation of rhenium: 1875
fucose-containing polysaccharides: 1241
growth
size distribution
Ohori (Korea): 909

**Brown trout**
distribution in New Zealand
effect of temperature: 1537
predation on caddis larval cases: 842

**Brundtland report**
conclusions and recommendations
environmental impact assessment: 1442

**Brycinus**
distribution and feeding ecology: 714
seasonality
Gebel Aulia Reservoir (Sudan): 713

**Bryocamptus**
*pilosus* n.sp.
USA: 540

**Bryophytes**
accumulation of scandium
in acid water: 1511

**Bryozoa**
*Fredericella sultana*
North American and European forms
differentiation: 1863
heavy metals and PCB contamination: 744
*Plumatella emarginata*
recruitment and colonisation
stream riffles: 873

**Budding**
*Cassiopea andromeda*: 763
*Convolutriloba retrogemma*: 742

**Budget**
silicon
Lake Toolik (Alaska): 349

**Buffer zones**
restoration measure
eutrophicated coastal lakes
Southwest England: 1259

**Bufo**
*americanus*
tadpoles
growth and survival: 20

**Bulinus**
food selection: 1029

host
of *Schistosoma intercalatum*: 235

**Buoyancy**
in outflow fields: 992

**Buoyant weight**
technique
for growth-rate measurement: 1358

**Burrowing mayfly**
nymphal production
effect of contaminated sediments: 469

**Burrows**
of *Callichirus laurae*
organic matter distribution: 1765

**$^{13}C$ NMR spectroscopy**
phycocolloid analysis: 417

**$^{13}C$**
measurement
carbon assimilation by phytoplankton: 415

**$^{14}C$**
dating
sedimentation: 1525
measurement
sediment chronology: 1273
translocation
between *Savignium* and *Millepora*: 337

**C:N ratio**
effect of temperature and light
in *Gelidium sesquipedale*: 1718
sediment organic matter: 326

**C:N:P ratio**
suspended particulate material
effects of phytoplankton: 13

**C:P ratio**
effect of phytoplankton bloom
Lake Erken (Sweden): 1336

**Ca-alginate**
enzymatic degradation
by marine fungi: 1517

**$^{45}Ca$**
accumulation
freshwater turtles: 830

**Cadmium**
accumulation
drifting macrophytes: 1055
*Mytilus edulis*
mathematical model: 718
oligochaetes: 1477
concentrations
in aquatic macrophytes: 1346
in *Chironomus* larvae: 824
induction of tumors
in *Dugesia dorotocephala*: 1170
in lake sediments
inventories
Adirondack region (USA): 860
monitoring by *Enteromorpha*
in estuaries: 1514
solubility
in sediments: 1804
toxicity
to *Agapetus fuscipes* larvae: 1101
microplate bioassay
*Selenastrum capricornutum*: 1698
to stream invertebrates
pH relation: 604
uptake kinetics and accumulated forms
in *Lemna*
comparison with thallium: 1602
uptake and effects
*Chironomus riparius* larvae: 1709
uptake rate
*Branchinecta longiantenna*: 1154

**Caenis**
larvae
habitat characterization: 346

**Cage culture**
impact on phytoplankton and periphyton
Scottish lake: 1654

**Calanoida**
*Colombodiaptomus brandorffi* n.gen.n.sp.
*C. brandorffi pilosa* n.ssp: 600
*Acanthodiaptomus denticornis*
mouthpart morphology: 953
composition and biogeography
interactions
with Cyclopoida and phytoplankton
experiments: 1626
*Eurytemora affinis*
ecology: 280
*Neodiaptomus lindbergi*
larval development: 421
*Phyllodiaptomus blanci*
larval morphology: 1396
*Phyllodiaptomus sasikumari* n.sp.
South India: 1398
postembryonic development
*Paralabidocera antarctica*: 1686
reproductive characteristics
relevance to outdoor enclosures: 1624
synonymy
within *Neodiaptomus*: 160, 1397
*Tropodiaptomus asimi* n.sp. 454
*Tropodiaptomus lateralis*
Nigeria: 1018
*Arctodiaptomus (Rhabdodiaptomus) michaeli* n.sp.
India: 1395
*Neoboeckella loffleri* n.gen. n.sp.
Bolivia: 120

**Calamoecia**
co-occurrence with *Boeckella*
Australia: 1048

**Calanus**
predation by *Mertensia ovum*: 1669

**Calcification**
Cnidaria
concepts and evolution: 1712
modulation
polymer activities
*Corallina*: 1610

**Calcite**
precipitation

saline lakes: 894, 1407
recirculating experimental stream
model: 786
shell mineralogy
Littorinidae: 1690
supersaturation: 921

**Calcium carbonate saturation index**
seasonal variation
coastal lagoon: 1008

**Calcium**
effect on yield and gel strength
agar: 458
concentration
effect on $^{226}Ra$ and $^{45}Ca$ accumulation
freshwater turtles: 830
cycle
coupling with strontium: 1635
effect on discharge of nematocysts
nudibranchs: 654
effect on egg hatching and nymphal survival
*Cloeon triangulifer*: 1672
phosphate adsorption
in sediments: 1349
regulating effect
on algal P-nutrition: 861
role in light emission
*Euphysa japonica*: 1025

**Calcium-channel blockers**
effect on cyst hatching
*Thamnocephalus platyurus*: 451

**Calcium-phosphate-complexes**
phosphorus solubility
porewater: 1641

**Calicoblastic ectoderm**
skeletogenic tissue
ultrastructure: 1712

**Calliactis**
*parasitica*
nematocyst discharge
effect of trypsin: 1485
*tricolor*
symbiosis
with *Dardanus* and *Pagurus*: 232

**Callianassa**
*subterranea*
oxygen from burrows
effect on redox potential: 548

**Callichirus**
*laurae*
burrows
distribution of organic matter: 1765

**Callionymus**
*marquesensis* n.sp.
*obscurus* n.sp.
Pacific Ocean: 562

**Callus**
culture
*Gelidium* domestication: 590
formation
*Laurencia* sp.: 1438
*Grateloupia doryphora*: 1438
*Ecklonia cava*: 881

**Caloric content**
*Enallagma civile* nymphs: 641
nauplii
Greek *Artemia* strains: 1

**Calothrix**
community
Lake Malawi: 688

**Cambarus**
*sciotensis*
production: 1451

**Cancer**
in planarians
relationship with regeneration: 732

**CANOCO**
computer programme
species-environment relationships
analysis: 211

**Canonical correspondence analysis (CCA)**
community variation: 1605
changes in agricultural land-use patterns: 668
growth requirements of phytoplankton: 1761
reconstruction of pH
from diatom and cladoceran assemblages: 1576

**Canonical ordination**
environmental factors and plankton communities
relationships and trends: 1757

**Canopy**
of *Sargassum muticum*
characteristics
Lake Grevelingen (south netherlands): 362

**Caprella**
*decipiens*
*monoceros*
maternal care: 57

**Caprellidae**
ecology and physiology
Possjet Bay (Japan Sea): 1764
from Brizil
review: 1795

**Caprogammarus**
*gurjanovae*
redescription: 1678
taxonomic status: 1678

**Carbaryl**
effect on zooplankton communities: 707

**Carbohydrate**
concentration
relationship with dark respiration rate
plankton community: 1063
content
rotifers: 674
particulate phase
determination: 885

**Carbon dioxide**
depletion
effect on phytoplankton community: 1270
transfer via air-water interface
recirculating experimental stream
model: 786

**Carbon**
fluxes
effect of allochthonous organic input: 543
assimilation
by phytoplankton: 380, 415
balance
ETS-activity of plankton and sediment: 578
budget
*Daphnia lumholtzi: 897*
lakes and rivers
arctic Alaska: 904
content
*Brachionus plicatilis*: 1882
*Ceratophyllum demersum* litter: 157
*Eudiaptomus gracilis*
*Thermocyclops oithonoides*
effect of lipid reserves: 940
cycle
in lakes: 545
Lake Arlington (USA, Texas): 308
Oosterschelde estuary (Netherlands): 1530
in lakes: 545
effect on phytoplankton growth rates: 1826
mineralization
from *Eichhornia* detritus: 1392
uptake
daily changes
in relation phytoplankton blooms: 1153
utilisation
production estimates: 649

**Carbonaceous particles**
markers
recent sediment distribution: 1838

**Carbonate**
Dead Sea sediments: 1243

**Carbonic anhydrase**
activities
effect of decreased salinity: 637

**Carboxylase**
activity measurement
carbon assimilation by phytoplankton: 415

**Carboxylic acids**
short-chain
via decomposition of *Planorbis*: 377

**Carcinogen**
benzo(a)pyrene
effect on regeneration of pharynx
*Bdellocephala brunnea*: 782
effect on planarians: 156

**Carcinogenesis**
in *Dugesia dorotocephala*: 1170
in planarians
relationship with regeneration: 732

**Carnivory**
*Oxytricha bifaria*
ecological adaptation: 1422

**Carotenoids**
in benthos
Antarctic lake: 1300

**Carp**
production
predation on tubificids: 1432

**Carpospores**
in *Porphyra yezoensis*
degree of self-fertilization: 1569

**Carrageenan**
commercial resources
worldwide distribution: 1113
content
in *Kappaphycus alvarezii*
ammonium effect: 1466
*Eucheuma denticulatum*
chemical composition: 1158
seaweeds
biotechnology: 1409
yield
differences
strains of farmed carrageenophytes: 1725
chemical screening
marine algae: 1480
composition
*Chondrus*: 1437
field survey
prospects: 1877
*Gigartina skottsbergii*
seasonal variation: 1348
infrared analysis: 352
Mar Piccolo (Mediterranean Sea &,

southern Italy): 283
properties
farmed *Eucheuma* spp.: 80

**Carrying capacity**
phytoplankton biomass
negative impact of disturbances: 1613

**Carybdea**
*sivickisi*
anatomy and behaviour: 730
reproduction and life cycle: 730

**Cases**
of limnephilid larvae
predation by brown trout and sculpin: 842

**Cassiopea**
*andromeda*
reproduction: 763

**Castration**
*Artemia*
effect of cestode parasitism: 43

**Casts**
of seaweeds from shore and sea
harvesting method: 856

**Catalogue**
of species
gammaridean Amphipoda
from Chile: 634

**Catastrophe theory**
in relation to freshwater ecosystems
modelling: 1518

**Catch per unit effort**
fish populations
acidified Swedish lakes
before and after liming: 407
*Phoxinus eos*: 736
*P. neogaeus*: 736
*Rastrelliger kanagurta*: 1216

**Catch tentacles**
in sea anemones
morphology and function: 1848

**Catchment**
management
athalassic lakes (Australia): 1710

**Catecholamines**
distribution
higher vs lower turbellarians: 838
microturbellarian nervous system: 1412

**Catenulida**
nervous system
evidence of catecholamines: 1412

**Cations**
export
from Alaskan arctic watersheds: 348
in world's most dilute lake
Lake Notasha (USA): 473

**Catostomidae**
detritus-consuming omnivorous fish
diet description
quantitative light microscopy: 19

**Catostomus**
*commersoni*
concentrationof Fe, Zn and Cu: 1880
temperature-tolerant foraging habits: 1006

**Caulerpales**
DNA base composition
variation: 560

**Cell**
adhesion
extracellular matrix
hydrozoan jellyfish: 1526
culture
*Gelidium*: 590
planarians: 573
cycle
*Heterocapsa* sp.: 138, 970
*Olisthodiscus luteus*: 138, 970
differentiation
planarian regeneration: 611
enumeration
phytoplankton
size fractionation experiments: 30
recruitment
*Cassiopea andromeda*: 763
shape
function
Anthozoa: 768
size
algae
effect of nutrient enrichment: 273
phytoplankton
chlorophyll-*a* content: 1788
types
marking
with monoclonal antibodies: 1455
wall
composition
of *Gracilaria verrucosa*
for protoplasts: 128
polysaccharides
*Gelidium sesquipedale*: 1718
ultrastructure
*Gracilaria verrucosa*: 1680

**Cell-mediated immunity**
role of reticular cells
*Dugesia dorotocephala*: 1169

**Cellulase**
activity in leaf litter: 1806
guts of macroinvertebrates: 1806

**Celsinotum n.gen.**
*C. hypsilophum* n.sp.: 561
*C. parooensis* n.sp.: 561
*C. platamodes* n.sp.: 561

**Cenotype**
site group
taxon composition
mean environmental conditions: 1767

**Central America**
Costa Rica
tropical dry forest stream
seasonal limnology: 291
Twin Cays mangrove (Belize)
hydroids
abundance and distribution: 256

**Centrifugal flotation**
invertebrate separation
benthic samples: 363

**Ceramic processing**
of polluted dredged muds
formation of useful products: 1531

**Cerapus**
tube-building behaviour: 111

**Cerastoderma**
*edule*
microgrowth bands
use in *in situ* field bioassays: 652

**Ceratophyllum**
*demersum*
litter decomposition: 157

**Cercaria**
in snails
Kuwait Bay: 3

**Ceriodaphnia**
*cornuta*
predation by *Mesocyclops* spp.: 1086
*dubia*
toxicity testing
sewage treatment plant effluents: 126

**Chaetocladius**
*algericus* n.sp.
Algeria: 1180

**Chaetogaster**
histophysiology of digestion: 602
structure of alimentary canal: 602

**Chalk streams**
invertebrates
spatial and temporal occurrence: 1867
physical and chemical features: 147
biological characteristics: 147
epiphytic Chironomidae: 1345
biology of eel: 1052

**Channel form**
benthos distribution:234, 241

**Chaoborus**
*americanus*
larvae
density decline: 971
dry weight estimation: 1720
predation on *Daphnia pulex*: 888, 1304, 1305
*flavicans*
predation on *Daphnia longispina*: 933
in relation to life history of *Daphnia*: 888
predation effects
on zooplankton community structure: 733
comparison with *Neomysis*: 705

**Chara**
crayfish plague impact
Irish lakes: 1088
effect of high nutrient
Central Lake (U.K.): 1402
hummocks
effect on porewater flowlines: 1832

**Characteristic scaling**
compositional diversity
modelling: 858

**Characterization**
suspended particulate matter
by field-flow fractionation: 125

**Checklist**
rotifers
Balearic Islands (Mediterranean Sea): 395

**Chemical**
analysis
paleoecological changes
Lake Bjäresjösjön (S. Sweden): 580
attractants
response of *Gammarus* and caddis larvae: 34
chacterization
agar fraction
from *Gracilaria dura*: 1210
communication
detection of predator by prey: 623
composition
tropical aquatic macrophytes and water
Lobo Reservoir (Brazil): 103
divides
sulphate- and carbonate-rich brines: 1407
modelling
applications

recirculating experimental stream: 786
properties
lectins
from marine algae: 777
reception
by *Dardanus* and *Pagurus: 232*
stratification
reservoirs
Tasmania: 210
stratigraphy
metals in lake sediments
in relation to acidic precipitation: 1250

**Chemical Oxygen Demand (COD)**
eutrophic lakes: 1549
sediment metabolism: 1611
organic matter
quantification and characterization: 1128

**Chemistry**
acid lakes
Florida (USA)
effects of drought and post-drought conditions: 818
seasonal relationships: 819
agar: 948
rivers of Northeast Scotland: 136
saline lakes
Uganda: 1203
saline pans (Seewinkel, eastern Austria): 1137
sediment
interstitial water
Orbetello lagoon (Grosseto, Italy): 164
partitioning: 1275
streams
in relation to storms in catchment: 228
water
diatom assemblages
Bolivian salt lakes: 1555

**Chemoattraction**
of bactivorous ciliate: 1606

**Chemocline**
stratified karstic lakes
distribution of *Anuraeopsis*: 919

**Chemomanipulation**
sediment P inactivation
with iron (III) chloride: 182

**Chemoreception**
sea anemones: 1112

**Chemosensory response**
bactivorous ciliate: 1606

**Cherax**
*quadircarinatus*
host for *Diceratocephala boschmai*: 852
symbiosis
turbellarian temnocephalans: 266

**Chernobyl**
fallout of $^{137}Cs$
sediment cores: 194
in trout and arctic char: 1007
input of radionuclides
in sediments: 195, 865

**Chirocephalus**
*diaphanus*
life history: 1208

**Chironex**
*fleckeri*
distribution and behaviour
early life stages: 729
envenomation process
nematocyst's discharge mechanism: 486

**Chironomidae**
as food for *Catostomus commersoni*: 1006
assemblages
arctic vs alpine zones
from surficial lake sediments: 1796
*Chaetocladius algericus* n.sp.
Algeria: 1180
chalk streams
biology:1345
*Chironomus* larvae
concentration of Cd, Pb and Zn: 824
density decline: 971
*Chironomus circumdatus*
larval abundance
effect of biotic and abiotic factors: 1492
*Chironomus riparius* larvae
trace metals
uptake and effects: 1709
*Cricotopus (Cricotopus) nevadensis* n.sp.
southern Spain: 277
density and biomass
effect of tebuthiuron: 1693
downstream larval drift
River Chew (S.W. England): 1842
emergence
Lake Kasumigaura (Japan): 808
Lake Grasmere (New Zealand): 1516
stratigraphy of fossils
larval community
effect of fish predation
arctic ecosystem: 643
larval *Procladius* spp.
deformed mouthparts
impact of petrochemicals: 413
metal accumulation
effects of age and body weight: 924
new records
from Thailand: 1179
phenology and bathymetric distribution
Starnberger See (Germany): 607
population dynamics
ecological significance: 420
predation by Corixidae
rock-pools: 1295

predation
by *Coregonus laveratus*
Hjarbaek Fjord (Denmark): 1388
*Procladius paludicola*
mouthpart deformities
in relation to toxic pollutants: 1337
production estimates of dominant taxa
Rivers Widawka and Grabia (Poland): 670
response to acidification
Round Loch (SW Scotland): 230
response to nutrient enrichment
alkalinization: 439
*Rheotanytarsus thailandensis n.*sp.
Thailand: 1179
seasonal dynamics
Breitenbach stream (Germany): 1246
*Smittia durandae* n.sp.
Lebanon: 1180
species richness
effect of discharge rates: 1379
subfossil remains
biostratigraphy of Pleniglacial
maar lakes (Germany/France): 765
*Tanytarsus thaicus* n.sp.: 1179
Thailand: 1179
temporary pools on peat: 812

**Chitin**
skeletal structure
*Antipathes fiordensis*: 626

**Chlamydomonas**
preferred food
of *Daphnia galeata*: 1735
vertical distribution
stratified humic lake: 72

**Chlorella**
amino acid uptake
from symbiotic green hydra: 1100
as food to *Brachionus plicatilis*
intensive chemostat cultures: 816
mass culture: 1217
*pyrenoidosa*
growth
effect of phenolic acids: 967
*saccharophila*
fatty acid production: 1684

**Chloride**
eutrophication monitoring
SW Frisian lakes (The Netherlands): 1748

**Chlorine**
effect on litter breakdown
experimental streams: 1233

**Chlorobenzenes**
bioaccumulation
by *Poecilia reticulata*
effect of suspended sediments: 1532
bioconcentration and toxicity
bioassay with *Jordanella floridae*: 1102

**Chlorobium**
phaobacteroides
bloom: 251
Lake Kinneret (Israel)
role in iron distribution
Lake Banyoles (NE Spain): 592

**Chlorococcales**
composition
Ogelube Lake (Nigeria): 173

**Chlorophyceae**
density and composition
Loosdrecht lake: 956

**Chlorophyll**
*a* derivatives
in sediments
Alfacs Bay (Spain): 1773
biomass
cascading impact of planktivore abundance:
1120
Embalse del Río III Reservoir (Argentina):
1060
carotenoid ratios
benthos
Antarctic lake: 1300
budget
use of dialysis culture
Gamo Lagoon (Japan): 893
*Chlorella*
diurnal variation
effect of dynamic light regime: 932
concentration
diatoms
Kuparuk River (Alaska): 1142
Embalse del Rió III Reservoir (Argentina):
1061
epilithon
tundra stream (Alaska): 209
in relation to salinity
Rhône outlet: 1003
hypertrophic reservoir (South Africa): 1440
in relation to fish yields
Lake Balaton (Hungary): 171
content
in relation to phytoplanktonic size fractions
Lake Aydat (France): 30
in relation to protozooplankton
Esthwaite (U.K.): 975
in relation to *Hexagenia* production: 1822
in relation to inorganic carbon and $N_2$ uptake:
1153
lakes and impoundments
central and southern Nepal: 848
of sediments
estimation
sources of error: 756
Tjeukemeer (The Netherlands): 955
fluctuations

relationships with nutrients
Lake Liddell (Australia): 1463
levels
zooplankton grazing
Onondaga Lake (USA): 74
method
for phytoplankton biomass measurement: 163
nutrient enrichment
Florida lakes: 356
phosphorus dynamics
effects of alum treatment: 820
phytoplankton
estimation of physiological state: 757
shallow lakes (central Europe): 1788
relationship with phosphorus
dune lakes (Australia): 1285
stratigraphy
Slapton Ley (U.K.): 1261
subsurface maxima
coastal shelf
oceanic areas off Brazil: 217

**Chlorophyll-total P residuals**
variance
controlling factors: 1374

**Chlorophyta**
bioflavor production
*Ulva*: 568
life history
*Boergesenia: 158*
*Valonia*: 158
mass culture
*Dunaliella*: 1181
of Ogelube Lake (Nigeria): 173
parasexual fusion
products: 868
productivity
nutrient relationships
psammophytic vs epilithic: 1001
*Ulvaria oxysperma*
net cultivation: 870

**Chondria**
*macrocarpa*
agaroid
xylogalactan sulphate: 576

**Chondrus**
cover
*Phymatolithon*-relationship: 1306
crispus
dry weight and carrageenan composition
influence of tissue source: 1437
influence of growth rates: 1437
net primary production: 1366
ammonium uptake in culture: 44
harvesting
ecological impact: 1561

**Chromatography**
biotechnological applications of agar: 65

**Chromosomal**
evolution
*Gyratrix hermaphroditus*-complex: 1368
number
*Gracilaria verrucosa*: 167
polymorphisms
*Polycelis auriculata*: 1695

**Chronic**
exposure
to chlorine and ammonia
effect on litter breakdown: 1233
toxicity
industrial effluents
*to Cyprinodon variegatus*: 796
*to Tisbe battagliai*: 796
toxicity testing
use of bioassays and bioindicators
review: 614

**Chrysophyta**
stratigraphy: 426
chrysophycean stomatocysts
paleoecological significance: 1467

**Chydoridae**
*Alona hercegovinae* n.sp.
caves of Hercegovina (Yugoslavia): 215
*Alona sketi* n.sp.: 216
Yugoslavia
*Celsinotum* n.gen.: 561
*Celsinotum parooensis* n.sp.: 561
*Celsinotum hypsilophum* n.sp.: 561
*Celsinotum platamodes*
Australia: 561
ecology and distribution
Ireland
review: 449
*Monospilus dispar*
headshield: 1077

**Cibacron Blue F3G-A**
dye-based assay
for mannuronan 5'-epimerase: 1381

**Cilia**
role in locomotory and sensory functions
ctenophores: 1175
structure and function
Anthozoa: 768

**Ciliary propulsion**
locomotion in ctenophores: 1084

**Ciliata**
abundance
composition and distribution
Rio Grande Reservoir (Brazil): 104
*Colpidium* and *Dexiostoma*
taxonomic revision: 587
community structure
Llobregat River (Spain): 644

interstitial forms
Mediterranean sea: 1496
*Oxytricha bifaria*
reversible carnivory: 1422
plankton
Florida lakes (USA): 122
*Pseudocohnilembus*
chemoattraction: 1606
predation on heterotrophic nanoflagellates: 1821
seasonal distribution
hypolimnion
Esthwaite (U.K.): 974
seasonal variation in density
Lake Sobygaard (Denmark): 1328
species composition and distribution
Lake Kinneret (Israel): 1027
vertical distribution
stratified humic lake: 72

**Circadian rhythm**
flagellates: 1288
phytoplankters: 1363

**Circulation**
in El Sol (Mexico): 131

**Cladocera**
algal bloom control: 624
*Alona hercegovinae* n.sp.
caves of Hercegovina (Yugoslavia): 215
Alona sketi n.sp.
hypogean waters
Yugoslavia: 216
artificial refugia
for large-bodied species
Norfolk Broads (U.K.): 804
assemblage
qualitative changes
Popradské pleso lake (Czechoslovakia): 1790
reconstruction of pH and water colour
Lake Iso-Hietajärvi (Finland)
autecology and biogeography
saline lakes (Spain): 36
*Bosmina longirostris*
population dynamics: 1079
production: 200
*Bosmina*
hybridization
Lake Muskoka (Canada): 994
*Celsinotum* n.gen.: 561
*Celsinotum hypsilophum* n.sp.: 561
*Celsinotum parooensis* n.sp.: 561
*Celsinotum platamodes* n.sp.: 561
competition
*Scapholeberis kingi* vs *Synchaeta oblonga*: 616
*Daphnia (Ctenodaphnia) hispanica* sp. nov.
Spain: 622
*Daphnia galeata*
feeding behaviour: 1658
flitering comb morphology: 1658
*Daphnia magna*
clones and sexual offspring
analysis of phototaxis: 396
predation by *Mesostoma lingua*: 455
*Daphnia pulicaria*
survival
effect of previous feeding conditions: 1659
*Daphnia similis* group
populations
comparison: 789
*Daphnia similoides* n.sp.
India: 789
*Ctenodaphnia*: 789
*Daphnia, Bosmina and Chydorus*
effect of copper exposure
comparison: 910
*Daphniopsis quadrangulus* n.sp.
from salt lakes
Australia: 1552
density and composition
changes
lakes in The Netherlands: 956
*Diaphanosoma celebensis*
redescription: 914
*Diaphanosoma modigliani*
Sumatra: 915
*Diaphanosoma mongolianum*
*Diaphanosoma brachyurum*
Spain: 827
distribution
in relation to total P: 151
in relation to electrolytic conductivity: 151
in relation to suspended matter: 151
effect of pH and humic content
Swedish waters: 150
food limitation and body size
life cycle studies: 456
from Iberian Peninsula
review: 37
grazing
assimilation rates: 952
horizontal distribution
effect of selective fish predation
Sainte-Croix reservoir (France): 1353
*Ilyocryptus elegans* n.sp.
Argentina: 1292
*Ilyocryptus paranaensis* n.sp.
Argentina: 1291
*Ilyocryptus samsuni* n.sp.
Turkey: 682
*Ilyocryptus*
Europe
review: 1652
in sediments
lakes in Poland: 1670
long-preservation technique
for labelled animals: 1182
*Moina weismanni*
Central Europe: 790
*Monospilus dispar*
headshield
SEM: 1077

niche overlap
between herbivorous species: 750
occurrence
hypogean waters (Yugoslavia): 229
predation on *Ceriodaphnia cornuta*
by *Mesocyclops*: 1086
predation on *Daphnia obtusa*: 1535
predation
by pelagic water mites
subtropical lake
Argentina: 1093
predatory and herbivorous forms
interrelations with rotifers: 1091
salinity tolerance
morphology of osmoregulatory organs: 26
*Scapholeberis armata*
gamogenesis
induction by photoperiod and temperature: 146
seasonal succession: 524
self-maintenance
microcosms
with lake water: 1092
spatial resource utilisation
comparison with Rotifera: 950
subfossil remains
biostratigraphy of Pleniglacial
maar lakes (Germany/France): 765
taxonomy and distribution
Venezuela: 1889

**Cladistics**
Actiniidae phylogeny: 1103
*Littorina*: 1403
Rotifera: 1800
*Tisbe*, *Scutellidium* and *Drescheriella*
naupliar basis: 375

**Cladophora**
Cape Maclear
Lake Malawi: 688
mats
impact on shoreline reedbelt
Lake Constance-Untersee (Germany): 1282

**Cladophorales**
DNA base composition
variation: 560

**Clams**
levels and effects of contaminants
Detroit River (USA): 1054

**Clarias spp.**
reproductive biology
Anambra River basin (Nigeria): 500

**Classification**
Clitellata
review: 773

**Clavopsella**
*michaeli*
growth and reproduction
control mechanisms: 1347

**Clay**
discharges
effect on light availability: 389
effect on epilithon: 389

**Clear water lakes**
regional calibration
anthropogenic acidification
Newfoundland (Canada): 1539

**Clear-cutting**
effect on forest stream biology: 770
effect on water quality: 22

**Clearance rate**
*Acanthodiaptomus denticornis*: 950
*Brachionus plicatilis*: 918
*Cyclops vicinus vicinus*: 950
*Daphnia galeata*: 1735

**Clearing events**
role of zooplankton grazing
Onondaga Lake (USA): 74

**Climate**
change
thermal response of chalk streams
prediction: 1022
from sediment profiles
Lake District lakes (U.K.): 1321
effect on reproductive period
*Pelagia noctiluca*: 1460
effect on survival of *Tanymastix stagnalis*
temporary ponds (Ireland): 647
in relation to water quality management: 370
predictability
in relation to stream fauna diversity
south-western Australia: 246

**Clitellata**
classification
review: 773

**Cloeon**
*triangulifer*
egg hatching and nymphal survival: 1672

**Clonal diversity**
*Daphnia longispina*
ponds and shallow lakes vs deep lakes: 761
*Daphnia obtusa*
demographic parameters: 86

**Clonality**
*Plumatella emarginata*: 873

**Clones**
*Anthopleura asiatica*
gonad development: 567
*Artemia* populations
Northern Greece: 2
*Daphnia cucullata*
differences in life-history and aging: 462
*Corynactis californica*
variation in locomotion: 285
*Sagartia elegans*
expansion and dispersal: 1563
*Scapholeberis armata*
induction of gamogenesis: 146
structure
natural populations
*Zoanthus sociatus* and *Z. solanderi*: 872

**Clones and populations**
*Daphnia galeata*
reproductive effort
variability: 218

**Clutch size**
cyclopoid copepods
effect of temperature: 4

**Cnidae**
discharge mechanism
*Anemonia viridis*: 1703

**Cnidaria**
actiniarians and scleractinians
aggression
synopsis: 1848
Actiniidae phylogeny
isozyme studies: 1103
*Antipathes fiordensis*
skeletal growth rings
chemistry and structure: 626
*Atorella japonica*
polyp and strobila
muscles and nerves
ultrastructure: 1087
*Bainbridgia-Dualipora* association
implications
for palaegeography and palaeoecology: 1719
calcification
concepts and evolution: 1712
*Cassiopea andromeda*
reproduction: 763
developmental pathways: 508
*Entacmaea medusivora* n.sp.
Western Caroline Islands: 509
*Halammohydra intermedia*
nematocysts
differentiation and ultrastructure: 316
*Halocordyle disticha*
intraspecific variation: 1575
*Laodicea indica*
life cycle: 204
predation by reptiles, birds and mammals
review: 73
*Rhodalia miranda*
biogeography
south-west Atlantic: 1431
*Samuraia tabularasa* n.gen. n.sp.
Gulf of California (Mexico): 1051

**Cnidarians and ctenophores**
collective works
selected bibliography: 1849

**Cnidome**
types and distribution
in *Halocordyle disticha*: 1575

**$^{60}$Co**
behaviour in sediments
Tejo River (Portugal): 1028

**Co-occurrence**
patterns
*Boeckella* and *Calamoecia*
Australia: 1048

**Coarse particulate organic matter (CPOM)**
standing stock
mountain stream: 1650

**Coastal**
currents
effects on mangrove ecosystem: 555
dunes
water mites
The Netherlands and France: 1599
engineering
*Sargassum muticum*
canopy characteristics: 362
lakes
eutrophication
recommendations for restoration: 1259
Kirisjes Pond and Pup Lagoon (Antarctia)
environmental history: 618
Rio de Janeiro (Brazil)
rotifers: 1731
emergence
of Truelove Lowland (Canada): 898
lagoons
bioavailability of heavy metals: 945
Ria Formosa (S. Portugal)
intertidal sediments
oxygen profiles: 233
Le Brusc lagoon (France)
microaerophilic bacteria: 523
Ria Formosa lagoon (S. Portugal)
nutrients: 505
marine ecosystems (Mauritius)
ecology: 504

**Coastline configuration**
mangrove community structure: 731

**Cobalt**
solubility

in sediments: 1804

**Cocoons**
*Simulium*
flow patterns: 499

**Coelenterata**
neuropeptides
review: 664

**Coelenterate biology**
international conferences
history: 1024

**Coenological analysis**
fish community structure: 1319

**Coexistence**
*Acanthocyclops* and *Mesocyclops*: 1035
Anostraca, Notostraca and Spinicaudata
temporary ponds: 1699
*Chirocephalus* and *Tanymastix*
mountain ponds (Italy): 1208
*Cyclops* and *Mesocyclops*
humic ponds (Norway): 479
*Isoperla grammatica* and *I. difformis*: 1045
of rotifers: 183
*Streptocephalus packardi* and *S. texanus*
Enchanted Rock (USA, Texas): 127

**Cohort**
*Brachionus calyciflorus*
effect of pH: 1148
culture
*Tubifex tubifex*: 1302
cyclopoid copepods
effect of temperature: 4

**Cold tolerance**
gemmules
of *Spongilla lacustris*: 514

**Coleoptera**
*Dytiscus latissimus* and *D. circumcinctus*
larvae
predaceous behaviour: 843

**Collagen**
in extracellular matrix
hydrozoan jellyfish: 1526

**Collectors**
role in organic particle retention: 1298

**Colloblast**
in epidermis
*Vallicula multiformis*
ultrastructure: 485

**Colombodiaptomus n.gen.**
*brandorffi* n.sp.
*brandorffi pilosa* n.ssp.
Colombian Andes: 600

**Colonisation**
cycle
Plecoptera
Breitenbach (Germany): 1893
of eastern Mediterranean
by goatfishes: 625
of gravel bar
by Oligochaeta: 166
of intertidal muddy-sand flats
by benthic fauna: 1090
of phytomicrofauna
lotic environments: 314
of pine beech and poplar
by lignicolous marine fungi
Straits of Messina, Italy: 651
of reservoir
by benthic macroinvertebrates: 116
of streams by insects
effect of insecticidal application: 1798
of temporary aquatic islands
by microbes: 1105
of *Tessaria* litter
by invertebrates: 1228
outdoor enclosures
by *Acanthocyclops* and *Daphnia*: 1624
patterns
mayfly nymphs
on implanted substrates: 617
rates
of cages
by prey organisms: 960

**Colonisers**
opportunist rotifers
in young ponds: 1354

**Colony form**
reef corals
relationship with flow and feeding success: 1544

**Colour polymorphism**
*Littorina saxatilis* and *L. arcana*
Robin Hood's Bay (U.K.): 461

**Colpidium**
taxonomic revision
key to species
ecology: 587

**Combustion products**
carbonaceous particles
use as markers
for sediment distribution: 1838
mangetic spherules
use in dating method: 1115

**Commensalism**
*Trapezia* crabs
on *Stylophora pistillata*: 1436

*Urastoma* and *Polydora*
on *Mytilus galloprovincialis*: 1211

**Commercial resources**
seaweeds
worldwide distribution: 1113

**Communal spawning**
*Clarias* spp.
Anambra River basin (Nigeria): 500

**Community**
algae
Cape Maclear
Lake Malawi: 688
bacteria
in fertilized pond
role in aminoacid mineralization: 1160
benthos
analysis: 439
changes
phytoplankton: 1614
composition
phytoplankton
effect of different disturbance frequencies: 1312
correlation
phytoplankton
in epilimnion and metalimnion: 690
density and composition
Protozoa
Ogeechee River and Black Creek (USA): 271
disturbance
effect on bluegill feeding behaviour: 84
ecology
euhydrophytes: 1633
transferring of sediment with intact seed banks method: 662
epilithic biofilms
St. Regis River (USA, New York): 1580
epiphytic gastropods
St. Lawrence River (Canada): 1776
interactions
mysids
Kennedy and Muriel Lakes (Canada): 341
young-of-the-year
*Lota lota*: 1473
littoral invertebrates
effect of *Cottus* predation: 369
macroalgae
organization
role of disturbance: 209
macrobenthos
effects of oil pollution: 1222
macroinvertebrates
role of aquatic moss: 242
effect of power peaking flows: 1724
functional organization
effect of riparian vegetation: 446
structure
assessment with Surber vs kick samples: 1656
mangroves of N.W. Sri Lankan coast
floristic composition: 42
metabolism
effects of tributyltin: 996
microbes
for hazard assessment: 253
limited vs unlimited membership
evaluation and experimental tests: 1104
recovery responses
exposures to effluent: 355
microcrustaceans and rotifers
seasonal dynamics
Malaysian ricefields: 32
periphyton
effect of grazing: 874
effect of nutrient enrichment: 1065
phytoplankton
stir-up effect of wind
Lake Balaton (Hungary): 1288
structure
effect of intermediate disturbance: 774
impact of herbivory: 1668
in relation to pollution gradient
River Lujan (Argentina): 619
plankton
response to atrazine toxicity: 959
structure
impact of planktivore abundance: 1120
Lake St. Clair (Canada/USA): 1634
Portuguese Island mangroves (Mozambique)
effect of coastline changes: 731
protists
temporary aquatic islands: 1105
Protozoa
in chalk streams: 1589
respiration
plankton
relationship with size distribution and lake trophy: 21
stream macroinvertebrates
structure
benthic algae
effect of nutrient enrichment: 273
Chironomidae
effect of acidification
Round Loch (SW Scotland): 230
Coringa mangrove (India): 81
diatoms
in relation to nitrogen gradient
Truckee River (USA, Nevada): 1468
fish
rivers (England): 1319
macroinvertebrate fauna
in relation to water quality: 240
microplankton
arctic LTER lakes (Alaska): 1464
mosquitoes
role of predatory flatworms: 175
Muthupet mangrove ecosystem (India): 82
Rotifera
Artic North America: 299
high mountain lakes and ponds (Spain): 1161

saline inland waters
Ethiopia: 653
acid-stressed lakes (USA): 222
artificial crater lake: 183
suprabenthic gammaridean Amphopoda
comparison: 301
type
rotifers
Balearic Islands (Mediterranean Sea): 395
zooplankton
long-term changes
Lake Kinneret (Israel): 638
seasonal fluctuations: 1762
structure
influence of fish removal: 1058
in relation to lake trophy: 1378

**Community-unit hypothesis**
in relation to species succession: 1106

**Comparisons**
boat- vs helicopter-collected water samples
chemical analysis: 667
ecology
Nigerian estuaries: 39
fore-gut morphology
Antarctic Amphipoda: 328
limnology
Sambhar and Didwana lakes (India): 815
morphology
photoreceptors
free-living platyhelminths
review: 1620
Sidoidea: 913
statocysts
Platyhelminthes and Xenoturbellida: 472
visual systems
binocular vs multi-ocular planarians: 935
populations of *Cottus cognatus*
arctic lakes
with and without piscivores: 716

**Competition**
among actiniarians and scleractinians: 1848
among freshwater snails: 1029
among gelatinous zooplankton: 1370
among tilapiines: 937
between *Anguilla anguilla*
and juvenile salmonids: 1052
between *Corynactis californica*
and *Astrangia lajollaensis*: 285
between *Cyclops scutifer*
and *Mesocyclops leuckarti*: 479
between *Fucus spiralis* and *F. vesiculosus*: 288
between *Isoperla grammatica* and *I. difformis*: 1045
in protist community
successional pattern: 1106
interstitial crustaceans: 1080
intra- and interspecific
herbivorous cladocerans: 750
macroalgal assemblages: 1520
*Phagocata vitta*
vs *Crenobia alpina* and *Polycelis felina*: 67
*Synchaeta oblonga* vs *Scapholeberis kingi*: 616

**Competitive exclusion**
relation to Intermediate Disturbance
Hypothesis: 1613
*Streptocephalus* spp.: 127

**Complexes**
nickel in sediments: 1476

**Complexity index**
mangrove stands
N.W. Sri Lankan coast: 42

**Complexity**
phytoplankton community
effect of different disturbance frequencies: 1312

**Compositae**
*Tessaria integrifolia*
litterfall
leaf decomposition and colonisation: 1228

**Composite electromorphs**
*Brachionus plicatilis*
Soda Lake (USA, Nevada): 1885

**Composition**
benthos
Naro Moru River (Kenya): 1081

**Compositional diversity**
relation to Intermediate Disturbance
Hypothesis
modelling: 858

**Compost**
from macroalgae
experiment: 1162

**Compound phytoplankton quotient**
relationship with carbon dioxide system: 1254

**Compsopogon**
distribution and seasonal dynamics
Preto River basin (Brazil): 1227

**Computer**
CANOCO programme
species-environment relationships
analysis: 211
control
algal cyclostat
for dynamic light regime: 931
enumeration
plankton
periphyton and sediment diatoms: 699
phylogenetic analyses
Rotifera: 1800

**Conchocelis**
filamentous phase
in *Porphyra* spp.: 1792

**Conchospores**
production
*Porphyra* spp.: 1792

**Conchostraca**
distribution
Mexico: 1031
from Maltese Islands: 963
taxonomy and distribution
Yugoslavia
review: 1062

**Concluding remarks**
symposium
on dissolved organic matter
in lacustrine ecosystems: 1828
trophic relationships in inland waters: 627
workshop
Intermediate Disturbance Hypothesis
in Phytoplankton Ecology: 1414

**Condition factor**
fish populations
indicator of environmental health: 1204
whitefish
in acidified lakes: 1387

**Conductivity**
in world's most dilute lake
Lake Notasha (USA): 473

**Conformity**
copepod postembryonic durations
review: 727

**Congener-free condition**
bluegill feeding behaviour: 84

**Congeneric species**
of *Protonemura*
temperature dependence variation
in egg development: 1068

**Coniferous forest streams**
insect communities
effect of disturbance: 48

**Consent**
for discharges
pollution control in U.K.: 1021

**Conservation**
corals
Red Sea reef system: 1429
lakes and rivers: 1177
of British North Sea estuaries
strategy: 387
status
athalassic lakes (Australia): 1710
status
of tropical Asian rivers
review: 444

**Constant temperatures**
water-bath
for rearing aquatic animals: 1069

**Constrainment techniques**
leaf breakdown: 371

**Constraints**
for large body size
*Hydra*: 1590

**Consumption**
rates
among fish and zooplankton
Tjeukemeer (The Netherlands): 1775

**Contaminants**
concentration in biota
Lake St. Clair (Canada/USA): 977
cycling process
use of radionuclides
Lakes Biel and Zürich (Switzerland): 1502
in sediments
bioassay with benthos: 1415
effect of suspended solids: 1528
sensitivity of autotrophic picoplankton: 1200
toxicity testing
bioassays with phytoplankton: 1193

**Contamination**
copper
Patuxent River (USA): 1865
influence on sediment chronology: 1273
of sediments
bioassays with bacteria and phytoplankton: 1157
bioassays with bacteria
algae and higher plants
comparison: 17
effect on production of *Hexagenia* nymphs
Upper Great Lakes: 469
mercury and lindane: 18

**Continental shelf**
eastern Tyrrhenian Sea
suspended matter
transport and influence on benthos: 527

**Continuous culture algal bioassays**
organic pollution in aquatic ecosystems: 1416

**Continuous culture**
*Prochlorothrix hollandica*: 1433

**Continuous flow-chamber**
prey preferences
*Macquaria ambigua* larvae: 70

**Contraction pulse**
in *Hydra*
photoresponse: 1674

**Control mechanisms**
growth and reproduction
*Clavopsella michaeli*: 1347

**Convection**
contribution to mixing
Mahoney Lake (Canada): 1808

**Convective flow patterns**
in stream beds
biological relationships: 1832

**Convoluta**
*psammophila* embryos
nervous system and statocyst morphogenesis
ultrastructure: 526

**Convolutriloba**
*retrogemma*
budding process: 742

**Copepoda**
*Acanthocyclops robustus*
production: 200
*Acanthodiaptomus denticornis*
mouthpart morphology: 953
*Antarcticobradya tenuis*
Weddell Sea (Antarctica): 1529
*Arctodiaptomus (Rhabdodiaptomus) michaeli* n.sp.
Kashmir (India): 1395
autoecology and biogeography
saline lakes (Spain): 36
*Bathycamptus eckmani* n.gen. n.sp.
San Diego Trough, off California: 798
*Boreolimella* n.gen.: 798
*Carolinicola* n.gen.: 798
*Hemimesochra*: 798
*Mesopsyllus*: 798
*Perucamptus* n.gen.: 798
*Pusillargillus* n.gen.: 798
*Boeckella triarticulata*: 1871
growth, reproduction and mortality
effect of *Epistylis* infection: 1871
*Boeckella* and *Calamoecia*
co-occurrence patterns
Australia: 1048
*Bryocamptus pilosus* n.sp.
USA: 540
Calanoida
composition and biogeography
*Tropodiaptomus asimi* n.sp.
West-Darfur (Sudan): 454
coexistence
*Acanthocyclops robustus*
and *Mesocyclops leuckarti: 1035*
*Colombodiaptomus brandorffi* n.gen. n.sp.: 600
*Colombodiaptomus brandorffi pilosa* n.ssp: 600
composition
density and distribution
Gulf of St. Lawrence (Canada): 313
*Cyclops kolensis* and *C. vicinus*
filtering and feeding rates: 14
*Cyclops scutifer* and *Mesocyclops leuckarti*
coexistence
humic ponds (Norway): 479
*Cyclops vicinus*
*Mesocyclops leuckarti*
*Thermocyclops crassus*
resting stages and spatial distribution
South German lakes: 1039
density and composition
changes
Loosdrecht lake and Tjeukemeer (The Netherlands): 956
*Diacyclops languidoides*
*Acanthocyclops montana* n.sp.
Montana (USA): 1404
diet-related growth and development
*Megacyclops viridis*
*Macrocyclops*: 5
effect of pH and humic content
Swedish waters: 150
*Eodiaptomus shihi* n.sp.
central India: 1394
*Eucyclops serrulatus* and *Cyclops strenuus*
effect of temperature on development: 1037
*Eudiaptomus gracilis* and *Thermocyclops oithonoides*
carbon content
effect of lipids: 940
*Eudiaptomus gracilis*
fish predation: 1667
*Eurytemora affinis*
ecology
salt marsh tide pools: 280
grazing
effect on phytoplankton community structure: 1668
*Halicyclops* spp.
revision: 1443
*Halicycops hurlberti* n.sp.: 1443
California (USA)
Harpacticoida
intrashoot distribution
on *Zostera marina*: 1814
in relation to total P
electrolytic conductivity
and suspended matter: 151
light effects
population dynamics: 1140
*Mesocyclops edax*
phenology of dormancy
Lake Shenandoah (USA): 427
predation: 821
*Mesocyclops spp.*
predation: 1086
*Neoboeckella loffleri* n.gen. n.sp.

Bolivia: 120
*Neodiaptomus lindbergi*
larval development: 421
*Neomaraenobiotus laurentiacus* n.gen. n.sp.
Canada: 541
*Phyllodiaptomus blanci*
larval morphology: 1396
*Phyllodiaptomus sasikumari* n.sp.
South India: 1398
postembryonic development
*Paralabidocera antarctica*: 1686
postembryonic durations
review: 727
*Scutellidium hippolytes*
naupliar development: 375
*Sociellus torus* n.gen. n.sp.
*Odontomolgus pumilus* n.sp.
*Paramolgus ampullaceus* n.sp.
Great Barrier Reef (Australia): 794
synonymy
*Neodiaptomus schmackeri*
with *N. strigilipes* and *N. handeli*: 160
within *Neodiaptomus*
Indian subcontinent: 1397
*Thalestris longimana*
first nauplius and copepodite stages
phylogenetic significance: 374
*Thermocyclops crassus*
seasonal cycle
Gronne Lake (Germany): 1038
Tisbidimorpha
copepodid development
phylogeny: 373
*Tropodiaptomus lateralis*
Nigeria: 1018
utilization of winter phytoplankton bloom: 1758

**Copepodid development**
Tisbidimorpha
comparison: 373
*Thalestris langimana*: 374

**Copepodid-naupliar duration ratio**
in calanoid copepods
trends: 727

**Copper**
accumulation
drifting macrophytes
Detroit River (USA): 1055
*Mytilus edulis*
mathematical model: 718
oligochaetes
River Danube reservoir (Austria): 1477
acute toxicity to fish
effect of salinity: 245
binding properties: 613
concentration and distribution
*Catostomus commersoni*: 1880
concentration
oysters
Patuxent River (USA): 1866
aquatic macrophytes
Shoal Lake (Canada): 1346
in sediments
Llangorse Lake (U.K.)
paleolimnology: 851
contamination
Patuxent River (USA): 1865
cycling
effect on phytoplankton: 725
in *Plectrocnemia conspersa* larvae
location: 381
in talitrid amphipods
seasonal variation: 1384
loss
uptake and tissue distribution
during moulting cycle
talitrid amphipods: 1816
short- and long-term exposure
effect on five cladoceran species
comparison: 910
stress on periphyton
Lake Orta (Italy): 281
sublethal effects
on diel activity *Arius felis*: 1642
uptake
depuration and effect on filtration activity
*Anodonta cygnea*: 1482
uptake and effects
*Chironomus riparius* larvae: 1709

**Coprecipitation**
heavy metals with halite
Dead Sea: 1653
strontium with calcite
Lake Constance (Germany): 1635

**Copulation duration**
*Littorina littorea: 1513*
*Littorina saxatilis*: 1513

**Copulatory**
apparatus
*Bdellocephala brunnea*: 938
degeneration and differentiation
*Kontikia mexicana*
developmental sequence
taxonomic significance: 1267
organs
phylogenetic significance
acoel turbellarians: 1049

**Corals**
reefs
communities
phase shifts and ecological significance: 438
ecosystem
phosphorus metabolism: 1622
fauna
Red Sea coast (Saudi Arabia)
human impact: 28
Great Barrier Reef (Australia)

associates
Copepoda: 794
Kilifi coral reef (Kenya)
fish yield: 1255
of Mauritius
biota
impact of human activity: 504
of north Jamaica
impact of hurricanes: 1864
calcification
concepts and evolution: 1712
*Corynactis californica*
locomotion: 285
asexual reproduction: 285
killing of corals: 285
faviid species
spawning: 1868
feeding behaviour
physiological control
review: 973
*Gardineroseris planulata*
copepod associates
on Great Barrier Reef: 794
mucus
degradation and utilization
by bacteria: 1736
prey capture and distribution
effect of water movement: 1544
primary production
in relation to wide light range: 1713
Red Sea reef system
quantitative damage assessment: 1429
Rugosa
early ontogeny
principles
review: 510
Scleractinia
spermatozoa
morphology: 1646

**Corallimorpharia**
*Corynactis californica*
locomotion: 285
asexual reproduction: 285

**Corallina**
polymer acivity
in calcification modualtion: 1610

**Corallinaceae**
*Lithothamnion corallioides:* 1358
growth rate
Bay of Brest (France): 1358

**Corbicula**
*fluminea*
growth and overwintering survival
St. Clair River (USA): 559
biology
Vermilion River (USA): 126

**Core correlation**
sediment accumulation rates
Slapton Ley (U.K.): 1261

**Coregonus**
*albula*
egg quality and female condition
during spawning: 949
growth and food consumption
bioenergetics model: 741
larval feeding: 871
impact on nutrient levels: 809
impact on phytoplankton and zoobenthos: 809
*lavaretus* larvae
otolith
daily increments: 906
predation effects on zooplankton community
Lake Suwa (Japan): 706
reproduction
effect of trophic state of waters: 1189
stocking
impact on ecosystem
Hjarbaek Fjord (Denmark): 1388

**Corer**
sedimentation rate measurement
gravity coring devices
comparison: 1232

**Corixidae**
distribution
Corrib catchment (Ireland): 1729
influence on bottom fauna
rock-pools: 1295
*Micronecta scutellaris*
population ecology
Lake Naivasha (Kenya): 315

**Cormorants**
effect on eutrophication: 603

**Coronatae**
medusae
polyp tubes
taxonomic characters: 825

**Corophium**
*curvispinum*
life history
Lake Balaton (Hungary): 1212
*spinicorne*
dominance
in macroinvertebrate community
sand dune lake: 1862

**Correspondence analysis**
diatoms and chemical environment: 1461
total and specific alkaline phosphatase activity: 529

**Cosmopolitanism**
sedimentary diatoms

Lake Tanganyika: 258

**Cost-benefit analysis**
hydrological management
fen ecosystems: 106

**Cottus**
*cognatus*
comparison of populations
arctic lakes: 716
predation effect
on larval chironomid community
arctic ecosystem: 643
*gobio*
interaction with *Noemacheilus barbatulus*
experiments: 1823

**Coulter Counter**
method
phytoplankton biomass measurement: 163

**Courtship behaviour**
*Tilapia zillii*
effect of environmental factors
Lake Kinneret: 243

**Crangonyx**
*shoemakeri*
predation on *Daphnia obtusa*: 1535

**Crassostrea**
*cucullata*
ecomorphology
mangroves of Gazi Creek (Kenya): 1673
*gigas*
biomass
effect on oxygen and ammonia exchange
rates: 201

**Crayfish**
impact of crayfish plague: 1088
predation by largemouth bass
experiment: 366

**Crayfish-plague**
pathogen
*Aphanomyces astaci*: 1089

**Crenobia**
alpina
competition with *Phagocata vitta*: 67

**Critical mixing depth**
effect on primary productivity
Modder River reservoirs (South Africa): 665

**Crops**
land tillage in catchment
heavy metal pollution: 851

**Cross sections**
*Chlorella*
diurnal variation
effect of dynamic light regime: 932

**Cross-analysis**
fish manipulation in Danish lakes
short-term effects: 835

**Crossability**
*Eutima japonica* and *Eucheilota intermedia*:
934

**Crosses**
*Daphnia magna* clones
analysis of phototaxis: 396

**Crustacea**
abundance
exoedicerotid amphipods
sandy beaches
Sydney (Australia): 847
relationship with *Abramis biomass*
Lake Balaton (Hungary): 1688
Amphipoda
species composition and biomass
Lake Balaton (Hungary): 1213
annual density fluctuations
before and after restoration measures
Loosdrecht lakes (The Netherlands): 676
*Antichthomysis notidana* n.gen. n.sp.
Tasmania: 516
*Arctodiaptomus (Rhabdodiaptomus) michaeli*
n.sp.
India: 1395
*Asellus aquaticus*
effects of heavy metals: 1138
*Bosmina longirostris*
population dynamics: 1079
*Branchinecta granulosa*
redescription: 327
*Branchinecta*
taxonomy and zoogeography
Yugoslavia: 1332
*Branchipus cortesi* n.sp.
Spain: 38
*Branchipus serbicus* n.sp.
Yugoslavia: 1334
Broa reservoir (S.P.-Brazil)
biomass estimation: 1085
Cladocera
hypogean waters
Yugoslavia: 229
Iberian Peninsula
review: 37
salinity tolerance: 26
morphology of osmoregulatory organs: 26
*Colombodiaptomus brandorffi* n.gen. n.sp.
*Colombodiaptomus brandorffi pilosa* n.ssp.
Colombia: 600
comparative fore-gut morphology
Antarctic Amphipoda: 328
composition and density

Loosdrecht Lakes (The Netherlands): 678
*Corophium curvispinum*
life history: 1212
*Daphnia pulicaria*
survival
effect of previous feeding conditions: 1659
*Daphnia similis* group
populations
comparison: 789
*Daphniopsis quadrangulus* n.sp.
salt lakes (Australia): 1552
*Diaphanosoma celebensis*
redescription: 914
*Diaphanosoma modigliani*
Sumatra: 915
*Diaphanosoma senegal*
redescription and biogeography: 916
dominant zooplankton
seasonality and abundance
Lake Awasa (Ethiopia): 1130
feeding
predatory tendencies
*Streptocephalus proboscideus*: 1136
food and feeding
*Tachypleus gigas*
India: 295
functional bioassays
comparison: 1119
*Gammarus* spp.
mating: 11
*Ilyocryptus*
from Europe
review: 1652
*Ilyocryptus paranaensis* n.sp.
River Paraná (Argentina): 1291
*Ilyocryptus samsuni* n.sp.
Turkey: 682
*Ingolfiella canariensis* n.sp.
Tenerife and Hierro (Spain): 1787
*Lepidurus couesii*
egg hatching: 712
mating behaviour
sexual dimorphism: 333
*Macrobracium olfersii*
eyestalk ablation: 1118
*Mesocyclops edax*
phenology of dormancy: 427
*Mesopodopsis aegyptia* n.sp.
*Mesopodopsis tropicalis* n.sp.
*Mesopodopsis wooldridgei* n.sp
Mediterranean: 1860
*Moina weismanni*
Central Europe: 790
moulting cycle
talitrid amphipods: 1816
Mysidacea
*Spelaeomysis cochinensis* n.sp.
India: 1301
*Pseudoniphargus candelariae* n.sp.
Tenerife (Canary Islands): 1490
redescription
*Caprogammarus gurjanovae*: 1678
*Rhipidogammarus rheophilus* n.sp.
Tenerife (Canary Islands): 1655
*Sclerocypris tuberculata*
description of male: 1071
Sidoidea
comparative morphology and ecology: 913
*Streptocephalus macrourus*
egg hatching: 1149
synonymy
*Neodiaptomus schmackeri*
with *N. strigilipes* and *N. handeli*: 160
talitrid amphipods
copper and zinc concentrations
seasonal variation: 1384
*Tenagomysis tasmaniae*
*Anisomysis mixta australis*
*Paramesopodopsis rufa*
population dynamic: 517
variation in acid tolerance
freshwaters: 566
zooplankton
saline pans (Austria): 1137

**Cryptomonas**
*phaseolus*
vertical migration
Lake Cisó (Spain): 598
vertical distribution
stratified humic lake: 72

**$^{134}$Cs**
content
in sediments
Ponsonby Tarn (U.K.): 195

**$^{137}$Cs**
contamination
*Salmo trutta* and *Salvelinus alpinus*
Lake Vikteren (Norway): 1007
content
in sediments
Ponsonby Tarn (U.K.): 195
deposition
Llyn Llygad Rheidol catchment (U.K.): 194
in lake sediments
inventories
Adirondack region (USA): 860

**CSTR model**
lake hydraulics: 564

**Ctenopharyngodon**
*idella*
faeces
utilization by *Asellus aquaticus*: 1333

**Ctenophora**
*Mertensia ovum*
predation on *Calanus*: 1669
*Pleurobrachia pileus*
cilia-based feeding
behaviour and physiology: 1175

*Vallicula multiformis*
behaviour and ultrastructure: 485
predation: 1370
swimming movements
ctene plate propulsion: 1084

**Cubozoa**
envenomation syndromes
review of medical treatment
northern Australia: 515

**Culex**
Irrigation Scheme
Mwea-Tebere (Kenya): 1214
*tarsalis*
biological control: 176

**Culicidae**
larvae
water ingestion: 1073

**Cultivation history**
sediment charactristics
lakes in East Finland: 668

**Cultivation**
*Porphyra*
for nori: 1190
*Eucheuma denticulatum*
*Kappaphycus alvarezii*
Philippines: 1725
*Gelidium latifolium*
Spain: 1427
*Gelidium*
in field: 511
in the sea: 1129
seaweeds
effect of light on production: 1114
see also Culture

**Cultural development**
environmental impact
on Lake Ontario (Canada): 1593

**Cultural landscape**
past 6000 years
southern Sweden: 580

**Culture**
ammonium uptake
by *Chondrus crispus*: 44
*Artemia: 115*
*Gracilaria*
as model for seaweed growth: 563
juvenile sporophytes
*Lessonia*: 464
*Laminaria abyssalis*
in laboratory: 1878
*Moina macrocopa*: 1076
mussels: 1597
seaweeds: 710
nitrogen nutrition
*Gracilaria tikvahiae*-model: 709
strategies
*Artemia franciscana*: 9
*Streptoceplalus macrourus*: 1150
yeast as algal substitute
*Artemia franciscana*
*Streptocephalus proboscideus*: 354

**Curdiea**
*coriacea*
*flabellata*
agar composition: 575

**Currents**
in lakes
use in modelling
water exchange processes: 1781

**Cyanea**
speciation
taxonomy and biogeography: 224

**Cyanobacteria**
Antarctic lake
carotenoids: 1300
biomass
biomanipulated vs unmanipulated lakes: 1014
bloom
formation dynamics: 1887
control by cladocerans: 624
density
changes
Loosdrecht lake and Tjeukemeer (The Netherlands): 956
effect of fish: 887
extracellular products
toxic effect on *Daphnia*: 549
growth requirements: 1761
toxic blooms
Finnish fresh and coastal waters: 1582
uptake of nitrogen
daily pattern: 1777
volume reduction
zooplankton grazing: 1493
*Nodularia spumigena*
isolation of strains and toxins: 1581
*Oscillatoria agardhii*
peptide toxin: 490

**Cyanophyta**
*Anabaena circinalis*
behaviour in field
long-term observations: 1096

**Cyclopoida**
coexistence
*Acanthocyclops robustus*
and *Mesocyclops leuckarti*: 1035
*Cyclops vicinus*
*Mesocyclops leuckarti*
*Thermocyclops crassus*
life-history traits: 1039

*Diacyclops languidoides*
*Acanthocyclops montana* n.sp.
ground water (USA): 1404
diet-related growth and development
*Megacyclops viridis*
*Macrocyclops albidus*
*Acanthocyclops vernalis: 5*
*Eucyclops serrulatus*
*Cyclops strenuus*
effect of temperature on development: 1037
*Halicyclops* spp.
taxonomic revision: 1443
*Halicyclops hurlberti* n.sp.: 1443
USA
interactions with Calanoida and phytoplankton
experiments: 1626
predation
by *Mesocyclops edax*: 821
on zooplankton prey: 1445
structure of zooplankton community: 1446
reproductive characteristics
relevance to outdoor enclosures: 1624
temperature effect
on development times: 1036
on naupliar and copepodite stages: 1036
*Thermocyclops crassus*
seasonal cycle
Gronne Lake (Germany): 1038

**Cycle(s)**
of arsenic
in sediments: 704
in primary productivity
Lake Tahoe (USA): 826

**Cyclical parthenogenesis**
*Daphnia pulex*
ponds (USA): 969

**Cycling**
dissolved organic carbon
Experimental Lakes Area (Canada): 1522

**Cyclomorphosis**
in *Daphnia*
adaptation against invertebrate predation: 1343

**Cyclops**
*kolensis* and *C. vicinus*
filtering and feeding rates: 14
*strenuus*
effect of temperature on development
reproduction and longevity: 1037
*vicinus vicinus*
grazing and assimilation rates: 950

**Cyclostat**
with computer control
for dynamic light regime: 931

**Cymatia**
*bonsdorfi*
natural diet
immunological analysis: 1405

**Cyperus**
*papyrus*
roots
acetylene reduction: 1215

**Cyprinidae**
density
effects on planktonic communities: 771
effects on water quality: 771
impact on zooplankton and algae
drainable ponds: 1126
0+ cyprinids
consumption by
0+ piscivores: 1376
phytoplanktivores
effect on phytoplankton biomass: 1679
*Ptychocheilus lucius*
salinity tolerance: 1229
predation on ostracods: 1098

**Cyprinus**
*carpio*
growth and production
effect of argulosis-saprolegniasis: 1579
life-history patterns
Guadalquivir river estuary (Spain): 518

**Cyst**
hatching
*Thamnocephalus platyurus*: 451
*Streptocephalus dichotomus*: 451
wall structure
*Streptocephalus* spp.
comparison: 404
formation
*Fukaurahydra anthoformis: 1872*
*Hataia parva*: 1872
induction
*Tubifex tubifex*: 54
production
*Artemia monica*
Mono Lake (USA): 379

**Cystocarp**
structure
*Gelidium* vs *Pterocladia*: 1498

**Cytokinesis**
of bacteria
stimulation by bacteriophage predation: 958

**Cytology**
of skeletal muscles
Rotifera: 321

**Cytoskeleton**
in *Hydra* nematocytes
development: 1519

**Damage**
corals in Red Sea reef system
quantitative assessment: 1429

**Dams**
changes in tide range: 1789
prevention of tidal flooding: 1789

**Damselfly**
*Enallagma civile* nymphs
predation rates and survivorship: 641

**Daphnia**
bioassay
inconsistencies
critical review: 90
biovolume
effect on water quality: 778
control of cyanobacterial blooms: 624
*cucullata*
clones
differences in life-history and aging: 462
cyclomorphosis
adaptation against invertebrate predation: 1343
density and size distribution
effect of fish predation: 284
extracellular products of cyanobacteria
toxic effect: 549
filtering area adaptation
mechanisms: 1355
*galeata*
bacterial feeding mechanism
effect of food conditions: 1735
embryonic duration: 137
feeding behaviour: 1658
filtering comb morphology: 1658
growth and reproduction
indirect effects of planktivorous fish: 1020
phytoplankton control
comparison with *D. magna: 391*
reproduction
pond vs reservoir populations: 218
grazing effect on phytoplankton community structure: 813
grazing pressure on phytoplankton
effect of cisco die-off: 1760
grazing
vertical distribution
stratified humic lake: 72
*hispanica* sp. nov.
Spain: 622
*hyalina*
embryonic duration: 137
influence on phosphorus uptake by plankton: 431
*laevis*
predation by *Piona* sp.: 1093
*longispina*
grazing effect
on plankton food chains
humic lakes: 1488
predation by *Chaoborus*: 933
vertical migration
in stratified humic lake: 1489
*lumholtzi*
production and carbon budget: 897
*magna*
clones and sexual offspring
analysis of phototaxis: 396
life-history traits variation: 1874
effect on filament length
filamentous blue-greens: 390
introduction
biomanipulation experiments: 1697
phytoplankton density control
comparison with *D. galeata*: 391
sediment toxicity testing
lakes (Sweden): 385
sensitivity to deltamethrin: 1870
toxicity of metal-polluted sediments: 1837
*obtusa*
clones
differences in demographic parameters: 86
life-tables
toxicity assessment of chromium: 332
prey to *Crangonyx shoemakeri*: 1535
periodicity
effect of fish predation: 1361
predation by *Abramis*: 1742
*pulex* and *D. magna*
life-history parameters
modification by *Chaoborus* presence: 888
*pulex*
intraspecific variability: 969
*Chaoborus*-induced spines: 1304
predation by *Chaoborus* larvae: 1305
*pulicaria*
survival
effect of previous feeding conditions: 1659
reproduction
diurnal peridiocity: 1545
role in plankton metabolism
polyhumic lake: 862
*similis* group
populations
comparison: 789
*similoides* n.sp.: 789
size-selective predation
by *Rutilus rutilus*: 1324
succession of species
biomanipulated Dutch lakes: 675

**Daphniidae**
*Daphnia similis* group
comparison of populations: 789
reproductive characteristics
relevance to outdoor enclosures: 1624
*Scapholeberis armata*
gamogenesis-induction
by photoperiod and temperature: 146

**Daphniopsis**
*quadrangulus* n.sp.
salt lakes (Australia): 1552

**Dardanus**
and *Pagurus*
chemical recognition: 232

**Dark carbon losses**
of phytoplankton
Lake Loosdrecht (The Netherlands): 1536

**Dark-bottle**
water column respiration measurement: 1691

**Dating**
aquatic deposits
$^{210}Pb/^{210}Po$ ratio: 476
lake sediments
$^{241}Am$: 59
magnetic spherules: 1115
sediment
accuracy and precision: 1273

**Day length**
effect on seasonal changes
in benthic macroinvertebrate communities: 436

**Daylight**
influence on water column respiration
tropical fish ponds: 1691

**DCA ordination**
diatom assemblages: 1791

**DCMU**
for metabolism and primary production
*in situ* studies: 319

**DDT**
impact on macoinvercommunities: 1815

**Decadidymus**
*gulosus* n.gen. n.sp.
Australia: 266

**Decapoda**
*Macrobrachium handschini*
redescription: 237
*Philyra globasa*
larval and post-larval development: 926
*Macrobrachium olfersii*
eyestalk ablation effects: 1118

**Decomposition**
*Ceratophyllum demersum* litter:157
dissolved organic matter: 862
litter: 113, 659, 1657
macrophytes
edibility to invertebrate herbivores: 1666
organic matter
freshwater ecosystems
evaluation: 1830
*Planorbis planorbis*
short-chain carboxylic acids: 377
rate
influence of soil fauna:1825
leaves
*Tessaria integrifolia: 1228*
plant material: 703, 982
submerged vs exposed eucalypt leaves: 206
sclerophyllous fynbos plants: 1390
*Spartina maritima: 1359*
*Zostera marina* leaves
loss/accumulation of heavy metals: 1015

**Decapoda**
*Leptochela pugnax*
prey for mullid fish: 625

**Dedifferentiation**
intestine
*Bipalium kewensse*: 1571
penis
*Bdellocephala brunnea*: 938

**Deep sea**
Harpacticoida
*Bathycamptus eckmani* n.gen. n.sp.
San Diego Trough (off California): 798
Nematoda
*Actinonema grafi* n.sp.
*Desmodora pilosa*
*Leptolaimus meyer-reili* n.sp.
*Tarvaia heegeri* n.sp.
*Dipolpeltoides linkei* n.sp.
*Diplopeltis bathmannii* n.sp.
*Southerniella nojii* n.sp.
*Pararaeolaimus rumohri* n.sp.
*Theristus altenbachi* n.sp.
Norwegian Sea: 833
*Desmoscolex parabyssorum* n.sp.
*D. membranifer* n.sp.
*D. coronatus* n.sp.
*D. variabilis* n.sp.
*D. decraemerae* n.sp.: 1607
*D. abyssorum*
*D. macrophasmata*
Calvi Corsica, Mediterranean: 1607
*Tricoma (Tricoma) apophysis* n.sp.
*T. (T.) latispicula* n.sp.
*T. (T.) corsicana* n.sp.
*T. (T.) pygmaea* n.sp.
*T. (T.) vincxae* n.sp.
*T. (T.) duopapillata* n.sp.
*T. (T.) setosa* n.sp.
*T. (Quadricoma) tripapillata* n.sp.
Calvi (Corsica, Mediterranean): 1608

**Deevey, E.S.**
biographical sketch and bibliography: 1601

**Deflation**
event
at Lake Torrens (South Australia)
$^{14}C$ data: 1525

**Deforestation**
physical characteristics
boreal river (USA): 593

**Deformities**
in *Procladius paludicola*
effect of toxic pollutants
Murray and Darling Rivers (Australia): 1337

**Degeneration**
copulatory apparatus
*Bdellocephala brunnea*: 938
*Sertularia perpusilla*: 791

**Degradation**
arsenobetaine to arsenic
by sedimentary microorganisms: 704
coral reef communities: 438
leaf litter
by macroinvertebrates: 1134
of freshwaters
review: 1827
rate
sedimented mussel deposits: 657

**Delta**
St. Clair River delta (Canada)
larval fish
distribution and abundance: 985

**Deltamethrin**
effect on zooplankton: 1708
toxicity and biocentration
*Rana temporaria* tadpoles: 1707
*Gambusia affinis*: 1707
toxicity
to *Daphnia magna*: 1870

**Demanian system**
*Adoncholaimus papillatus* females: 577

**Demography**
*Brachionus calyciflorus*
effect of endosulfan: 519
spawning grayling
Beaverlodge River (Alberta): 270

**Desmoscolex**
Mediterranean deep-sea transect: 1607

**Denitrification**
effect of oxygen
marine sediments: 193
effect of temperature and organic matter
sediment-water systems: 477
fluxes
sediment-water interface: 1533
in riparian zone
Oak Ridges moraine (Canada): 752
rate
mud blankets
Kattegat Sea (Sweden): 538
riparian zone and stream channel: 339
potential
measurement
method: 1831

**Density dependence**
functions
*Tubifex tubifex*
cohort cultures: 191
population dynamics model: 192

**Density regulation**
self-maintaining Cladocera
microcosms: 1092

**Density**
also see Abundance
brown trout
effects of angling: 214
*Corbicula fluminea*
effect of DO levels
sediment and sewag: 126
*Gracilaria*
Mokomoko Inlet (New Zealand): 1339
*Anguilla anguilla*
Arroyo Chabatchos (Iberian Peninsula): 1002
*Baetis* sp.
effect of river fertilization
Kuparuk River (USA, Alaska): 758
-dependent reductions in growth
*Rutilus rutilus*: 1324
invertebrates
seasonal variation
tropical stream pools: 71
*Perca fluviatilis*
acidified river (Norway): 1000
simuliid larvae
surface area estimation methods: 1107
snails
in relation to salmonid diet: 1133

**Departmental policy**
proposals
follow-up restoration measures
Loosdrecht lakes: 400

**Depletion**
stream macroinvertebrate benthos
drift experiment: 1856

**Depth**
effect on life-history traits
aquatic gammarideans: 1479

**Depuration**
copper and lead
*Anodonta cygnea*: 1482

**Desiccation**
tolerance
supralittoral amphipods
water loss vs gill area: 1067

period
effect on egg incubation
*Streptocephalus macrourus*: 1149
resistance
among intertidal prosobranchs: 1117
survival of gemmules
*Anheteromeyenia ryderi*: 513

**Desmidiaceae**
density reduction
physical effects of macrograzers: 1696
of Ogelube Lake (Nigeria): 173
*Staurastrum dilatatum* var. *thomassonii* var. nov.
Italy: 1423
taxonomy
Grane Langso (Denmark): 1254
Guma Valley (West Africa): 1424

**Desmonemes**
morphology
distribution
function
*Halocordyle disticha*: 1283

**Desorption**
heavy metals distribution: 1881
$^{60}Co$: 1028

**Destratification**
mechanisms and ecological consequences: 672

**Detergents**
acute and chronic effects on tubificids: 279
LAS-treated sediment
experiment on *Branchiura*: 278

**Deterioration**
fen ecosystems
Vecht River plain (The Netherlands): 106

**Detoxification**
by microbes
role in bioassay research: 1722

**Detrended correspondence analysis**
epilithic diatom community: 1142

**Detritivore**
growth
*Bufo* tadpoles
food value of amorphous detritus: 20
benthic macroinvertebrates
intermittent streams (Australia): 207
fish
diet description
quantitative microscopy: 19

**Detritus**
benthic samples
invertebrate sorting: 363
contribution to organic pool
lagoon of Tikehau atoll (French Polynesia): 292
coupling with phytoplankton
model
Lake Loosdrecht (The Netherlands): 630
depth-time distribution
Lake Nemi (central Italy): 1458
food value assessment
by growth and survival of tadpoles
*Bufo americanus:* 20
from *Eichhornia crassipes*
production and decomposition
Lake Apopka (USA Florida): 1392
of phytoplankton
dynamics
Lake Loosdrecht (The Netherlands): 1284
processing
cellulase activity: 1806
processing
importance of extracellular enzymes
polyhumic lake: 1205
rate: 1206

**Development**
*Convoluta psammophila*
ultrastructure of nervous system: 526
cytoskeleton
in *Hydra* nematocytes: 1519
duration
rotifers and cladocerans: 456
effect of diet
on *Megacyclops viridis: 5*
on *Macrocyclops albidus*: 5
on *Acanthocyclops vernalis*: 5
*Ephydra hians*: 745
hydrozoan planulae
interstitial cells
differentiation: 1074
male *Paracilicaea keijii* n.sp.
Karachi coast (Pakistan): 828
nematocyst
in *Rosacea*: 1583
stonefly eggs: 1068
times
of eggs
nauplii and copepodites cyclopoids
effect of temperature: 1036
*Thermocyclops crassus*: 1038

**Developmental toxicants**
screening
FETAX test: 101

**Devonian**
*Bainbridgia* and *Dualipora*
co-occurrence
implications: 1719

**Dexiostoma**
taxonomic revision
ecology: 587

**Diacyclops**
*languidoides*
taxonomy: 1404

**Diagenesis**
in diatom assemblages
Lake Magadi (Kenya): 109
iron and manganese
Lake Toolik (Alaska): 350

**Dialysis culture**
chlorophyll budget: 893

**Dialysis with receiving resins**
method
determination of metal uptake rate: 1173

**Diapause**
*Cyclops scutifer*
*Mesocyclops leuckarti*: 479
*Thermocyclops crassus*: 1036, 1038

**Diaphanosoma**
*celebensis*
redescription: 914
*modigliani*
redescription: 915
*mongolianum* and *D. brachyurum*
Spain: 827
*senegal*
redescription: 916
geographical distribution: 916

**Diaptomus**
interactions with cyclopoids
experiments: 1626

**Diatoms**
*Amphora tanganyikae* n.sp.: 258
Lake Tanganyika
analysis
radionuclide content in sediments
Ponsonby Tarn (U.K.): 195
as eutrophication indicators
Lake Särkinen (Finland): 1491
assemblage
in relation to cyst abundance
paleoecological significance: 1467
Lake Eyre South (Australia): 178
reconstruction of pH and water colour
Lake Iso-Hietajärvi (Finland): 1576
surficial sediments
acid-tolerant taxa
Lake District tarns (U.K.): 735
in relation to water chemistry: 1555
in Lake Tanganyika: 257, 258
centric forms
taxonomy
River Thames (England): 1629
community
diversity
effect of urban and industrial waste: 1223
structure
Truckee River (USA, Nevada): 1468
composition in surficial sediment
Slapton Ley (U.K.): 1261
composition
around warm spring
Portneuf River (Idaho, USA): 1780
interglacial lake sediments (Poland): 1057
composition and dynamics
limestone stream (Spain): 1475
concentrations and accumulation rates in sediments
predictors of lake trophy: 1835
food of midge larvae
chalk streams: 1345
for inferring pH
old vs new calibration methods: 1694
fossils
inferrred ionic composition and salinity: 1461
*Fragilaria* abundance
Late-Glacial shallow lake
Sandy Flanders (Belgium): 412
Holocene Baltic sediments:1706
ingestion by *Diporeia*: 1372
ingestion by freshwater snails: 423
nutrients and growth conditions: 1010
of benthos
pigments
Antarctic lake: 1300
of sediments
enumeration
by computerized plankton counter: 699
*Phaeodactylum tricornutum*
nanomolar nitrate uptake
measurement: 1383
reconstruction of pH history
lakes 203 and 630
Newfoundland (Canada): 1539
response to phosphate fertilization
Kuparuk River (Alaska): 1142
silicon budget
Lake Toolik (ALaska): 349
stratigraphy
Bosherston Lakes (U.K.): 1402
Kirisjes Pond and Pup Lagoon (Antarctic): 618
Lake Bjäresjösjön (S. Sweden): 580
Lakes Labelle (Canada): 426
Lough Neagh (Ireland): 539
Shropshire-Cheshire meres (U.K.): 506
taphonomy and diagenesis
Late Pleistocene paleoecology
Lake Magadi (Kenya): 109

**Diceratocephala**
*boschmai*
life history and biology: 852

**Diel**
activity
*Arius felis*
sublethal effects of copper: 1642

*Gammarus pulex*
drift catches vs baited traps: 34
*Sericostoma personatum* larvae
effect on organic matter distribution: 1793
cycle
bacterioneuston: 1041
dissoloved oxygen and nutrients
impact of water renewal: 493
epipelagic siphonophores
off northern Namibia: 1290
metalimnetic microorganisms
Lake Cisó (Spain): 598
changes
dark respiration
phytoplankton
laboratory-scale enclosures: 1063
periodicity
invertebrate drift: 141
nitrogen uptake and metabolism
phytoplankton: 1777
phytoplankton productivity: 1363
vertical distribution
*Chloronema*
holomictic lakes: 7
zooplankton
Lake Naivasha (Kenya): 1094
vertical migration
zooplankton: 188, 1478

**Diesel**
drilling mud
effect on colonisation
of intertidal organisms: 1090

**Diet**
*Alosa fallax fallax*
Rivers Severn and Wyne (U.K.): 60
*Catostomus commersoni*: 1006
composition
*Upeneus asymmetricus*
*U. moluccensis*
*Mullus barbatus*
*M. surmuletus*: 625
*Cymatia bonsdorfi*
immunological analysis: 1405
description
detritus-consuming omnivores: 19
effects on growth and development
cyclopoid copepods: 5
*Entacmaea medusivora* n.sp.: 509
*Galaxias occidentalis*: 1316
*Isoperla grammatica* and *I. difformis: 1045*
*Lates niloticus*
Lake Victoria: 1155
*Platichthys flesus*: 1812
salmonids
in relation to benthic invertebrates
arctic lake: 1133
*Salmo trutta*
*Phoxinus phoxinus*
*Gasterosteus aculeatus*
comparison: 185
*Salvelinus fontinalis*: 788
*Salvelinus namaycush*
young-of-year
sub-optimal habitats: 1109
shifts
bluegills: 84
*Streptocephalus proboscideus*
culture: 403
test organism
bearing on toxicity test results: 965

**Differentiation**
crustacean embryology
role of retinoic acid: 451
*Dugesia japonica*: 776
interstitial cells
hydrozoan planulae: 1074
*Microstomum lineare*: 1296

**Diffusion**
silt
Lake Marken (The Netherlands): 1783

**Diffusive exchange**
linear alkylbenzenesulphonates
between water and sediment: 40

**Digester**
bioconversion
macroalgae: 1162

**Digestion**
histophysiology
*Chaetogaster limnaei limnaei*: 602

**Dilution**
experiments
grazing by heterotrophic nanoflagellates
loss of bacterial production: 1821
at sea-bed
by contaminated water discharges: 992
in river plume of Rhône (France)
effect on physical and chemical conditions: 1003

**Dina**
*eturpshem* n.sp.: 1585
*krilata* n.sp.: 1585
*svilesta* n.sp.: 1585

**Dinoflagellates**
abundance and distribution
Abra of Bilbao vs adjacent shelf waters
Spain: 1279

**Dioecy**
evolutionary advantage
in *Batrachospermum boryanum*: 697

**Diploastrea**
*heliopora*
predation by *Acanthaster planci*: 265

**Diplohaplont**
life history
*Boergesenia*: 158
*Valonia*: 158

**Diplonychus**
*rusticum*
feeding: 445

**Diplopeltis**
*bathmanii* n.sp.: 833

**Dipolpeltoides**
*linkei* n.sp.: 833

**Diplopeltula**
*belgica* n.sp.: 1779
*pulchra* n.sp.: 1779
*curta* n.sp.: 1779
*indica*: 1779
*nellyae* n.sp.: 1779
*pumila* n.sp.: 1779
*striolata* n.sp.: 1779
**Diporeia**
feeding on diatoms: 1372

**Diptera**
see different groups
Simuliidae
*Austrosimulium furiosum*
*Simulium ornatipes*
water velocity preferences: 779
*Prosimulium* response
phosphorus enrichment
Kuparuk River (USA): 755
*Simulium*
flow patterns around cocoons and pupae: 499
Chironomidae
*Chaetocladius algericus* n.sp.
Algeria: 1180
*Chironomus* larvae
concentration of Cd, Pb and Zn: 824
*Cricotopus (Cricotopus) nevadensis* n.sp.: 277
downstream larval drift
River Chew (S.W. England): 1842
effect of fish predation
arctic ecosystem: 643
fossils
stratigraphy
Lake Grasmere (New Zealand): 1516
phenology and bathymetric distribution
Starnberger See (Germany): 607
population dynamics
ecological significance
Lake Balaton (Hungary): 420
production estimates
rivers (central Poland): 670
*Rheotanytarsus thailandensis n.*sp.
Thailand: 1179
*Smittia durandae* n.sp.
Lebanon: 1180
*Tanytarsus thaicus* n.sp.
Thailand: 1179
trace metals
uptake and effects
*Chironomus riparius* larvae: 1709

**Direct counting**
method
phytoplankton biomass measurement: 163

**Discharge**
effect on emergence of Trichoptera
Ochre River (Canada): 325
mechanism
cnidae
*Anemonia viridis*: 1703
envenomation process
*Chironex fleckeri* nematocysts: 486
nematocysts
*Calliactis parasitica*
*Aiptasia mutabilis*
effect of trypsin: 1485
rate
relationship with stream nutrient levels
during storm: 1108

**Discoplana**
distribution and phylogeny
Viti Levu (Fiji): 1676

**Diseases**
mosquito-borne
Kenya: 1214

**Disequilibrium**
zooplankton composition
Australian lakes and ponds: 1048

**Dispersal**
Australian centropagids
co-occurrence patterns: 1048
chironomid larvae
River Chew (S.W. England): 1842
pathways
for microbes
colonisation of temporary aquatic systems: 1105
protist succession: 1106
*Littorina littorea*: 841
*Streptocephalus* spp.: 127
*Unionicola intermedia*: 92

**Dispersion**
fine sediment
Great Lakes: 322, 1594
salt
effect of vertical mixing
mangrove estuary: 1732
sands and muddy sediments
statistical parameters: 1595

**Disposal**
dredged sediments
impact on primary productivity
Toronto Harbour (Canada): 1196

**Dissemination**
spermatia
*Gracilaria verrucosa*: 419

**Dissolution**
diatom frustules
Lake Magadi (Kenya): 109

**Dissolved DNA**
content
distribution
oligo- and eutrophic rivers: 1309

**Dissolved free amino acid**
seasonal changes
Hartbeespoort Dam (South Africa): 1440

**Dissolved inorganic nutrients**
diurnal variation
mangrove swamp: 1550

**Dissolved organic carbon (DOC)**
abundance and cycling: 1522
dynamics
regulated rivers (USA): 1326
effects on bacterial production and respiration
humic lake: 749
from phytoplankton
carbon source for bacteria: 1665
in relation to dissolved DNA
oligo- and eutrophic rivers: 1309
in relation to water column bacteria
acid lakes: 818
microbial control
in lakes
future research: 762
relationship with bacterial density and respiration: 110
relationship with lake bacteria and pH: 819
seasonal changes
hypertrophic reservoir (South Africa): 1440

**Dissolved organic matter**
food value
growth and survival of tadpoles: 20
in different molecular fractions
growth of bacteria, algae and protozoa: 1730
littoral-pelagial interchange and decomposition
polyhumic lake: 862
sources and regulatory functions
freshwater ecosystems: 1830

**Dissolved organic phosphorus**
mineralization
eutrophic lake: 340

**Dissolved oxygen**
relationship with rotifer occurrence: 153
determination
on interstitial water samples
new sampler: 1834
diel cycle
impact of water renewal
fishpond: 493
regimes
effect on feeding and vertical distribution
of *Nephelopsis obscura*: 388
seasonal variation
intermittent tropical forest stream: 291
tension
effect on egg hatching
*Streptocephalus macrourus*: 1149

**Dissolved phosphate**
content
in relation to calcite saturation: 1008

**Dissolved reactive phosphorus**
release from sediments: 884

**Distribution coefficient**
arsenic
in sediments: 347

**Distribution**
alcyonacean corals
Nanwan Bay (Taiwan): 376
Anostraca
Mexico: 1031
Yugoslavia: 1334
*Artemia*
Algeria: 1884
benthic invertebrates
along turbidity gradient
Lake Temiskaming (Canada): 1484
relation to channel form: 234
relation to salmonid diet: 1133
*Chironex fleckeri*
Queensland (Australia): 729
ciliates
Lake Kinneret (Israel): 1027
Cladocera
Venezuela: 1889
Conchostraca
Yugoslavia: 1062
*Corbicula fluminea*
St. Clair River (USA, Michigan): 559
Corixidae
Corrib catchment (Ireland): 1729
*Diaphanosoma celebensis*
South of Vietnam: 914
*Dreisenna polymorpha*
Lake St. Clair (Canada): 1023
Enchytraeidae
West Florida (USA): 737
Ephemeroptera
streams: 684
*Ephydra hians*

Mono Lake (USA, California): 745
fish larvae
St. Clair delta (USA, Michigan): 985
St. Clair River (Canada, Ontario): 986
fishes
Rio Claro (Costa Rica): 1016
flora and fauna
Oosterschelde estuary (The Netherlands): 980
freshwater snails
East Caprivi and Okavango River Baisn
Namibia and Botswana: 236
Gammaridea and Caprellidea
Brazil: 1795
*Gelidium* spp.
Europe: 1465
*Hexagenia nymphs*
effect of oiled sediments
Upper Great Lakes: 1524
hydroids
Twin Cays mangrove (Belize): 256
hydromedusae: 642, 1632
hyporheic fauna
northern California coast stream: 1111
Laevicaudata
Mexico:1031
larger turbellarians
temporary freshwaters
Southern New England (USA): 1600
lignicolous fungi
Straits of Messina (Italy): 651
littoral benthic fauna
prairie saline lakes (Canada): 702
*Littorina saxatilis* and *L. arcana*
Robin Hood's Bay (U.K.): 461
*Littorina saxatilis* and *L. littorea*
Belgian breakwaters: 841
mangrove plants
Coringa mangrove (India): 81
Tanzania: 1551
meiobenthos
mangroves of Gazi Bay (Kenya): 1759
*Micronecta scutellaris*
Lake Naivasha (Kenya): 315
nematodes
springs in Granada (Spain): 1263
mangroves (temperate Australia): 1237
newly-emerged Atlantic salmon
Washington County (USA, Maine): 685
Notostraca
Mexico: 1031
patterns
river invertebrates: 946
*Penaeus latisulcatus* and *P. indicus*
Chwaka Bay (Zanzibar, East Africa): 1660
phototrophic bacteria
basins of Lake Banyoles (Spain): 591
phytoplankton
Abra of Bilbao vs adjacent shelf waters
(Spain): 1279
plankton
Lake St. Clair (Canada/USA): 1194
Mida Creek mangroves (Kenyan coast): 586
platyhelminths
intertidal sediments (Australia): 424
reef corals
effect of water movement: 1543
Rhodophyta
Preto River basin (southeastern Brazil): 1227
root-fouling epibionts
Belizean (Central America) mangroves: 481
Rotifera
arctic North America: 299
high mountain lakes and ponds (Spain): 1161
in relation to temperature and oxygen: 1139
artificial crater lake: 183
*Lepadella (Xenolepadella) curvicaudata* n.sp.
coastal lakes (Brazil): 1731
species-specific patterns
piscivorous birds
Sovdeborgssjon (Sweden): 1857
Spinicaudata
Mexico: 1031
stream benthos
riffle-pool geomorphology: 241
*Streptocephalus torvicornis*
western and central Sahara and Sahel: 452
waterfowl
in relation to molluscs
Lake Zegrzynskie (Poland): 1636
zooplankton
mangrove creek system
Gazi (Kenya): 1281

**Disturbance**
benthic invertebrates
riffles vs pools: 234
catchment
diversity of Ephemeroptera: 684
forest stream biology: 770
macroinvertebrate communities: 659, 1426
deforestation
effect on boreal river (USA, Maine): 593
effect on insect communities: 48
effect on seaweeds: 1306
effect on structuring subtidal and intertidal
algal communities: 290
effect on phytoplankton
biomass, composition and species diversity:
813
community structure and diversity: 276, 416,
1454
seasonal succession and diversity: 1723
species richness, diversity and equitability:
1312
highway construction
effect on leaf processing: 1657
hurricanes
effect on coral reefs: 1864
spates
effect on interstitial communities: 435
water discharge
periphyton abundance and diversity: 10
woody debris
nutrient retention in streams: 75

tributyltin
functional response of *Fucus* communities: 996
seaweed harvesting
ecological effects: 552
storms
hydrochemical response of catchment: 228
streams
effect on colonisation by insects: 1798

**Ditches**
gastropod pulmonates
spatial distribution: 268
trophic status
effect of dredging and fish stocking: 787

**Diurnal**
changes
photosynthesis-irradiance relationship: 1536
photosynthesis and respiration
*Chlorella pyrenoidosa*
effect of light-dark cycles: 666
irradiance
effect on nitrogen uptake by phytoplankton: 1777
physical-chemical variables
mangrove swamp: 1550
periodicity
*Daphnia* reproduction: 1545

**Diversity**
benthic invertebrates
water quality assessment: 367
benthic macroinvertebrates
role of aquatic moss: 242
Chironomidae
effect of acidification
Round Loch (SW Scotland): 230
Corixidae
Corrib catchment (Ireland): 1729
Ephemeroptera
effect of substratum heterogeneity: 684
effect of catchment disturbance: 684
epilithic algae
effect of cooling water discharge
northern Baltic: 1605
freshwater macrofauna
Yemen Arab Republic: 25
insect communities
effect of disturbance
Pacific Northwest streams: 48
interstitial Ciliata
Mediterranean sea: 1496
invertebrate zooplankton predators
tropical lentic waters: 520
macrobenthic community
Neches river estuary (USA): 721
moss-dwelling chironomid communities
Breitenbach stream (Germany): 1246
nematodes
mangrove mudflat
Australia: 1237
periphyton
effect of disturbance: 10
phytoplankton
impact of disturbance: 303, 416, 1413, 1454, 1613, 1614, 1723
Rotifera
estuarine Suape (Brazil): 1230
floodplain lakes of River Niger (Nigeria): 1548
saline inland waters
Ethiopia: 653
stream fauna
south-western Australia: 246
zooplankton
mangrove creek system
Gazi (Kenya): 1281

**DNA**
base composition
variation
green algae: 560

**Dogwood**
leaves
breakdown rates: 371

**Domestication**
*Gelidium* spp.: 590

**Dominica**
introducetion
of *Polysiphonia breviarticulata*: 869

**Dopa**
in microturbellarian nervous system: 1412

**Dormancy**
*Apatania fimbriata*: 76
gemmules
*Eunapius fragilis*: 512
bacteria
separation from active fraction
by ETS activity: 448
*Mesocyclops edax*
phenology: 427

**Dosilia**
*brouni*
occurrence
Lake Baringo (Kenya): 1737

**Downward seepage**
role in phosphorus removal: 883

**Drag reduction**
survival mechanism
in *Hedophyllum* with dissected leaves: 68

**Dragrakes**
marine plant harvesting: 1561

**Drainable ponds**
cyprinid impact on zooplankton and algae: 1126

**Drainage basin**
River Kyrönjoki (western Finland)
influence of land use on sedimentation: 739

**Drainage channel**
response to nutrient loading
ricefield system: 544
Lewes Brooks (UK)
short chain carboxylic acids
distribution: 434

**Drawdown**
for sediment exposure to air: 502

**Dredging**
effects on resuspension of particulates
Toronto Harbour (Canada): 1196
effect on community structure of macrobenthos
Neches river estuary (USA): 721
reclamation of mercury-contaminated sediments
Tokuyama Bay (Japan): 1218
sediment phosphorus
effect on trophic status
ditches (North Holland): 787
lake restoration measure: 883, 1740

**Dreisenna**
*polymorpha*
bioprocessing
seston: 1859
polluted suspended matter: 1400
impact on native unionid clams
Lake St. Clair (Canada/USA): 1023
role in lake restoration: 1401
synchronous spawning
Lake Erie (USA): 687
valve movement response
tool in biological monitoring: 923

**Drift wood**
associated fungi
Serasa mangrove (Brunei): 799

**Drift**
*Baetis* sp.
effect of river fertilization
Kuparuk River (USA, Alaska): 758
benthic invertebrates
composition and seasonality
Naro Moru River (Kenya): 1081
chironomid larvae
River Chew (S.W. England): 1842
distance of salmonid eggs
experimental channel
use of artificial eggs: 361
invertebrates
Appalachian Mountain stream
impact of insecticide treatment: 1799
sampling
mesh-size effects: 1587
temporal variation
Mississippi River (USA, Louisiana): 908
macroinvertebrate benthos
effect on benthic abundance: 1856
macroinvertebrates
food selection by brook trout: 788
effect of excess organic input: 543
impact of acidification: 144
mayfly nymphs: 617
of fish-food organisms
role of aquatic moss: 242
size-differential
macroinvertebrates
Mississippi River (USA): 907
structure
total dry mass and chemical composition
River Krutynia (Poland): 1377

**Drifting performance**
salmonid eggs
real vs artificial
experimental stream channel: 359

**Drifting seaweeds**
Mar Piccolo (Mediterranean Sea, Italy): 283

**Drought**
effect on abundance and cycling
dissolved organic carbon: 1522
effect on benthic invertebrates
streams: 1172
effect on density of *Anguilla anguilla*
Cantabrian stream: 1002
effect on occurrence of akinetes
in *Anabaena circinalis*: 1096
effect on water column bacterial density
acid lakes (USA, Florida): 818
resistance
cyst formation
*Tubifex tubifex*: 54

**Drunella**
*karia* n.sp.: 882

**Dry matter content**
in relation to rotifer occurrence: 152

**Dry weight**
biomass
*Brachionus plicatilis*: 1882
planktonic crustacea: 1085
*Chaoborus americanus* larvae: 1720
copepods: 313

**Duckfood**
measurement with activity traps: 482

**Ducks**
effects on eutrophication: 603

**Dugesia**
*tigrina*
monoclonal antibod production: 1455
regeneration: 1121
*bengalensis*
reproduction and life cycle: 12
*dorotocephala*
reticular cells
phagocytic response: 1169
*japonica japonica*
head
rhodopsin-like proteins: 569
epidermal cell differentiation: 776
food ingestion
by intestinal phagocytic cells
SEM study: 807
karyology and taxonomy: 1683

**Dunaliella**
*viridis*
mass culture: 1181
*parva*
photosynthetic rate: 837

**Dune lakes**
Blue Lagoon and Lake Freshwater (Australia)
physical-chemical features: 1285
phytoplankton: 1285
of Tasmania
rotifer communities: 1566
habitat heterogeneity: 1566

**Durvillaea**
harvesting: 1521

**Dutch storm surge barrier**
*Sargassum* canopy: 362

**Dye-labelling**
discharging of nematocysts
*Anemonia viridis*: 1703

**Dynamic light regime**
algal cyclostat with computer-control: 931
*Chlorella*
effect on pigments and cross sections: 932
effect on minimum quantum requirement: 930
effect on photosynthesis-irradiance: 930

**Dynamic mass balance model**
total P concentration
eutrophication monitoring and assessment
SW Frisian lakes (The Netherlands): 1748

**Dytiscidae**
*Dytiscus latissimus larvae*
*D. circumcinctus* larvae
predation on trichopteran larvae: 843

**Early diagenesis**
in relation to nutrient concentration
pore water (Dead Sea): 1243

**Early warning system**
valve movement response of mussels: 923

**Echinometra**
ingestion
seaweed survival: 1269

**Echo-sounding**
bathymetric map
Lake of Banyoles (NE-Spain): 1165

**Ecklonia**
*cava*
callus formation: 881
photosynthesis: 69
for alginates
Namibian coast: 1159
harvesting: 1521
settlement on tetrapods: 1811
*stolonifera*
holdfasts
size-age relation: 1252

**Ecological**
criteria
selection of sensitive bioassay organisms: 652
effects
harvesting of *Lessonia*
central Chile: 1763
efficiency value
River Danube (Hungary): 200
impact
marine plant harvesting: 1561
objectives
eutrophication control
canals and lakes: 901
role
zooplankton in fishery
Lake Naivasha (Kenya): 1095
scale of salinity
determinant of salt lake fauna: 1853

**Ecology**
adaptation
reversible carnivory
*Oxytricha bifaria*: 1422
*Alboglossiphonia polypompholyx*: 478
amphipods
oostegite structure: 1643
benthic communities
Gulf of Gaeta (Italy): 527
biomass transfer
in benthos
black-water river (Amazon Basin): 1797
*Branchipus cortesi* n.sp.: 38
caprellid amphipods
Possjet Bay (Japan Sea): 1764
*Chloronema giganteum*: 7
choice of substrate and habitat
among brachionid rotifers: 1313
Chydoridae
Ireland: 449
Cladocera
Iberian Peninsula: 37
*Colpidium* spp.: 587
coral reef communities
singificance of phase shifts: 438
*Daphnia (Ctenodaphnia) hispanica* sp. nov.
Spain: 622
*Dexiostoma* spp.: 587
*Diaphanosoma mongolianum*: 827
*Diaphanosoma brachyurum*: 827
fish and macroinvertebrate communities
saline stream: 1573
fish fauna
Pilcomayo-Paraguay basins (Argentina): 1132
tropical ricefields: 33
fish species interactions
polyculture ponds: 1145
Frederiksborg Slotsso (Denmark)
consequences of fish removal: 1430
freshwater Rhizopoda: 155
*Fukaurahydra anthoformis* and *Hataia parva*
Japan: 1872
*Halicryptus spinulosus*: 823
impact
crayfish plague (Ireland): 1088
in rotifer taxonomy: 1471
La Trobe River (Australia)
effects of pulp and paper mill effluents: 722
Lake 817 (Canada, Newfoundland): 1472
Lake Kariba (central Africa): 1033
Llobregat River (Spain, Bracelona)
protozoan communities: 644
lotic midges
effect of discharge rates: 1379
mangrove-root fouling communities
Belize (Central America): 481
marine mites
survey: 114
Nigerian estuaries
comparative: 39
*Paracolpidium* sp.: 587
*Pentacoelum hispaniensis*
Spanish freshwater: 1592
phytoplankton
effect of disturbance: 1614
plankton
ice-covered bay of Lake Michigan (USA): 1758
planktonic Protozoa
eutrophic reservoir: 104
rotifer community structure: 183, 222, 398
seagrass
Arabian Gulf coast: 1364
stream macroalgae
southeastern Brazil: 859
subtidal sea anemones
coasts of California and Gulf of Maine (USA)
comparison: 723

*Thalestris longimana*: 374
tropical marine fungi
Brunei: 799
*Vaucheria dichotoma*
Lake Mikolajskie (Poland): 1286
whitefish
Finnish acidified lakes: 1387
zooplankton
Ogochi Reservoir (Japan): 1734

**Ecomorphology**
*Crassostrea cucullata*: 1673

**Ecosystem**
anthropogenic stress
hazard assessment
by microorganisms: 253
aquatic and terrestrial ecosystem interaction
effect of acid rain: 995
changes in Aral Sea: 27
control mechanisms
limnocorral experiment
Toolik Lake (USA, Alaska): 1257
Dutch Wadden Sea
response to phosphorus discharges: 853
freshwater
incorporation of $^{110m}$Ag into food webs: 594
health assessment
by fish population characteristics: 1204
multi-disciplinary and multi-trophic assay strategy: 1195
interactions
insular Caribbean mangroves: 87
Lake Ontario (Canada)
effects of land use and cultural development: 1593
mangroves of N.W. Sri Lankan coast
floristic composition: 42
modelling
Ems estuary (The Netherlands): 408
of streams
convective flow patterns
biological relationships: 1832
self-sustaining
Oosterschelde estuary (S.W. Netherlands): 1530
stained
biogeochemistry of humic substances: 394
studies
limnological trends in Finland: 1507

**Ecotoxicology**
use of bioassays
prediction of chemical levels: 254

**Ecotypes**
among rotifers
uniform treatment: 920
*Littorina saxatilis* and *L. neglecta*: 840

**Ectoenzymes**
of bacteria
role in organic matter processing: 307

**Ectoprocta**
*Fredericella sultana*
North America vs Europe
differentiation: 1863

**Ectosymbionts**
*Diceratocephala boschmai*
on *Cherax quadircarinatus*: 852
flat worms
SEM study of epidermis: 378

**Edible crops**
sensitivity to metal toxicity: 300

**Editor's preface**
Comparative Ecology of Freshwater and Coastal Marine Ecosystems.: 895

**Editorial**
on Hydrobiologia: 450

**Edmondson, W.T.**
list of publications: 467

**Efferent projection**
visual system
freshwater planarians: 935

**Efficiency**
energy transfer from primary producers to fish
Lake Balaton (Hungary): 171
light energy utilization
seaweed cultivation: 1114

**Effluents**
potential toxicity
use of bioassays: 1021
toxicity
phytoplankton recovery responses: 355

**Egeria**
*radiata*
growth, biomass, mortality: 1174
production, potential yield: 1174

**Egg**
deposition rates
*Platycnemis pennipes*: 1070
development times
cyclopoid copepods
effect of temperature: 1036
development
congeneric stonefly species
temperature dependence variation: 1068
*Coregonus*
effect of dissolved oxygen content: 1189
hatching
*Cloeon triangulifer*
effect of aluminum: 1672

effect of calcium and low pH: 1672
*Lepidurus couesii*
effect of temperature: 712
*Streptocephalus macrourus*
causative factors: 1149
incubation
*Apatania fimbriata*: 76
trout
effect of temperature: 1537
quality
before and during spawning
*Coregonus albula*: 949
real vs artificial
salmonids
physical properties: 359
drifting performance: 359
vulnerability of rotifers
to cyclopoid predation: 1445
weight
effect on embryonic duration
*Daphnia* and *Eudiaptomus*: 137

**Ehrlich carcinoma**
activity
brown algae: 1244

**Eichhornia**
*crassipes*
seasonal production of detritus
Lake Apopka (USA, Florida): 1392
root-mats
macroinvertebrate fauna: 89

**Eicosanoids**
from Rhodophyta: 608

**Eicosapentaenoic acid derivatives**
from Rhydophyta
new algal metabolism: 608

**Eisenia**
settlement
on coastal structures: 1811

**Ekman grab**
sampling performance
*in situ* observations: 180
design improvements: 180

**Electrical stimulation**
luminous responses
Anthozoa: 746

**Electrofishing**
catchability of *Anguilla anguilla*
Cantabrian stream: 1002
population estimation
fish producion: 1320

**Electrolytic conductivity**
in relation to microcrustacen occurrence: 151
in relation to rotifer occurrence: 152

**Electron transport system**
bacterial activity: 447
**Electrophoresis**
biotechnological applications of agar: 65
*Daphnia obtusa* clones: 86
allozymic variation
in tubificid oligochates: 1819
analysis of isozyme phenotypes
clonal structure
bdelloid rotifer population: 1421
discrimination
roach populations: 208
*Littorina saxatilis* and *L. neglecta*
genetic variation: 840
*Littorina saxatilis*
phylogeny: 1664
*Macrotrachela quadricornifera*
comparison of clonal populations: 1289
separation of isozymes: 1103
systematics
*Porphyra perforata* complex: 999

**Elemental composition**
*Brachionus plicatilis*: 1882
*Pterocladia capillacea*
site and seasonal variation: 610

**Elodea**
*canadensis*
spread in Lake Baikal: 922

**Embryo**
*Macrostomum*
musculature: 1428

**Embryogenesis**
hydrozoan planulae
interstitial cells
behaviour: 1074

**Embryological induction**
spines
*Daphnia pulex*: 1304

**Embryology**
*Bdellocephala brunnea*
ultrastructure of syncytium: 1481
*Haliplanella lineata: 571*

**Embryonic duration**
cyclopoid copepods
effect of temperature: 4, 1037
freshwater copepods
Belehrádek's equation: 465
planktonic crustaceans
effect of temperature: 137
effect of adult size and egg weight: 137

**Emergence**
adaptative strategies
among intertidal prosobranchs: 1117
Chironomidae

Lake Kasumigaura (Japan): 808
insects
subarctic lakes and streams
Québec (Canada): 720
*Pyrrhosoma nymphula*
ponds
northern England: 658
rate from diapause
*Cyclops vicinus*: 1039
*Mesocyclops leuckarti*: 1039
*Thermocyclops crassus*: 1039
Trichoptera
Ochre River (Canada): 325

**Emigration**
*Penaeus latisulcatus: 1660*
*Penaeus indicus*: 1660

**Empirical relationships**
evaluation of fish manipulation effects
Danish lakes: 834

**Enchytraeidae**
*Enchytraeus*
body wall
muscle organization: 1739
*minutus*
muscle development: 966
*variatus*
breeding cycle: 203
muscles
T-system: 471
aquatic toxicity testing: 1452
of Jiaozhou Bay (China): 491
phylogeny: 323, 324

**Enclosure**
algal biomass and species dominance
effect of fish: 887
effect of zooplankton: 887
benthic invertebrates
effects of stream flow and predation: 960
*Chaoborus* larvae
predation on herbivorous zooplankton
Frederiksborg Slotsso (Denmark): 306
*Coregonus*
predation on zooplankton community: 706
*Daphnia galeata vs D. magna*
phytoplankton biomass control: 391
effects of heavy metals on phytoplankton: 725
fish zooplanktivory
effects on phytoplankton: 1248
laboratory scale
light-limited algal growth: 1433
macrophyte growth
Lake Veluwe (The Netherlands): 1769
nutrient levels
phytoplankton and zoobenthos
impact of whitefish: 809
phytoplankton biomass
effect of N/P addition: 501
effect of *Rutilus* and *Daphnia*: 501
phytoplankton community structure
impact of herbivory: 1668
plankton community and eutrophication
impact of planktivorous fish: 1640
predation by water mite on zooplankton: 250
trophic level interactions
Lake Balaton (Hungary): 1687

**Encrusting corallines**
*Phymatolithon*: 1306

**Endangered species**
*Ptychocheilus lucius*: 1229
in tropical Asian rivers
effect of habitat degradation: 444

**Endemism**
Erpobdellidae
Lake Ohrid (Yugoslavia): 1585
Lake Baikal vs Lakes Tanganyika and Malawi: 565
Rotifera
Tasmania: 1566

**Endocytosis**
*Dugesia japonica*: 807

**Endoderm**
structural modification
during oocyte development
scyphomedusae: 78

**Endophytic oviposition**
*Platycnemis pennipes*: 1070

**Endosulfan**
effects of sublethal levels
*Brachionus calyciflorus* demography: 519

**Endosymbiosis**
*Hydra*
in relation to body size and bud size: 1590

**Endpoints**
risk assessment practices
strategy: 1280

**Energetic cost**
microhabitat selection
stream fishes (North America): 503

**Energetics**
in relation to ecotoxicology: 614

**Energy budgets**
lakes: 190
role of zoobenthos
Lake Thingvallavatn (Iceland): 997

**Energy patterns**
*Keratella cochlearis* populations
stratified lakes: 584

**Energy transfer**
from primary producers to fish
Lake Balaton (Hungary): 171

**Enrichment**
of *Brachionus plicatilis*
with n-3 fatty acids: 1271
rhenium
in brown algae: 1875

**Entacmaea**
*medusivora* n.sp.: 509

**Entermorpha**
monitor of heavy metals: 1514
parasexual fusion products: 868

**Enumeration**
plankton
periphyton and sediment diatoms
computerized plankton counter: 699

**Envenomation**
by cubozoan jellyfish
review of medical treatment
northern Australia: 515
by jellyfish
clinical manifestiations: 247

**Environment**
Loosdrecht lakes research project
eutrophication policy
The Netherlands: 911

**Environmental**
assessment
Lake St. Clair (Canada/USA): 977
Loosdrecht lakes (The Netherlands)
'AMOEBE-approach': 766
St. Marys River (Canada/USA): 877
Upper Great lakes Connecting Channels
preface: 1191
changes
Holocene
Truelove Lowland (Canada): 898
in relation to decreased salinity
Lake Kinneret (Israel): 637
chemicals
toxicity testing
use of enchytraeids: 1452
control
sediment investigation: 1785
health
fish population characteristics: 1204
impact
benthic macrtoinvertebrate distribution
St. Clair River (Canada, Ontario): 660
intensive cage fish farming: 1654
on Kuwaiti fisheries: 855
on Lake Ontario (Canada)
long-term changes: 1593
on St. Clair River (Canada, Ontario): 661
impact assessment
planning process
government decision making: 1442
implications
extremely polluted ('hot spot') sediments
remedial measures: 1584
variability
implications for photosynthesis models: 1294
variables
effect on nitrate reductase activity
in freshwater phytoplankton: 1869
effect on periphytic benthic diatoms: 1791
effect on shell length
in *Crassostrea cucullata*: 1673
effect on photosynthesis: 1341

**Environmentalist**
Sikko Parma
biographical sketch: 1753

**Enzymatic induction**
seaweed digestion
by *Trichosphaerium*: 1352

**Enzyme**
polymorphism
parthenogenetic *Artemia* populations
Northern Greece: 2

**Eodiaptomus**
*shihi* n.sp.
central India: 1394

**Epeorus**
grazing influence
on periphyton communities: 874

**Ephemerella**
*subvaria*
grazing influence
on periphyton communities: 874
leaf litter colonisation: 168

**Ephemeroptera**
altitudinal replacement
subtropical river: 437
*Baetis*
drift patterns and population density
effect of river fertilization: 758
*Cloeon triangulifer*
egg hatching and nymphal survival
effect of aluminum, calcium and pH: 1672
colonisation patterns
implanted substrates: 617
diversity: 684
distribution and seasonal abundance: 684
*Drunella karia* n.sp. nymphs
Turkey: 882
larval *Caenis* and *Trichorythodes*
habitat characterization: 346
species associations
subarctic lakes and streams

Québec (Canada): 720

**Ephippia**
induction
intraspecific variability
*Daphnia pulex* clones: 969

**Ephyra**
*Aurelia aurita*
rhopalium development: 1628
*hians*
distribution and abundance
in relation to physical habitat: 745

**Epibionts**
on roots of mangroves
distribution and abundance: 481
effects on root growth: 481
rotifers on cladocerans: 1091

**Epidermis**
*Dugesia japonica*: 776
fine structure
dalyellioid platyhelminths: 846
*Temnocephala* spp.

**Epifauna**
Amphipoda
community structure
effect of fish predation: 1469
colonisation of artificial habitats
controlling factors: 466

**Epifluorescence microscopy**
sediment toxicity to picoplankton: 1557

**Epilithium**
of proboscis
*Mesorhynchus terminostylis*
ultrastructure: 401

**Epilithon**
algae
community structure and dynamics
effect of cooling: 1605
effect of oil refinery effluent: 1578
response to phosphate fertilization: 1142
protozoans
production: 1589
effect of suspended solids: 389
exoenzyme activity: 1580
lowered biomass and productivity
effect of clay discharges: 1373
photosynthesis and respiration
tundra stream (Alaska): 209

**Epilogues**
Intrazooplankton Predation Symposium: 1625
Progress in Littorinid and Muricid Biology: 1380
Restoration and recovery of shallow eutrophic lakes in The Netherlands: 1752

**Epipelon**
of detritus
dynamics
sediment-water interface
Lake Loosdrecht (The Netherlands): 1284

**Epiphytes**
Chironomidae
chalk streams: 1345
community structure
role of seaweed complexity: 1470
on *Fucus serratus*
grazing by *Littorina mariae*: 1845
on *Sargassum muticum*
Baja California (Mexico): 15
protozoans
production
chalk streams: 1589

**Episodic pollution**
impact assessment: 1540

**Epistylis**
*daphniae*
infection effects
on *Boeckella triarticulata: 1871*

**Epithecal grooves**
early ontogeny
rugose corals: 510

**Epithelial conduction**
bioluminescence
*Euphysa japonica* hydromedusae: 1025

**Epizoic**
rotifers: 1097

**Epizootism**
freshwater branchiopods: 1700

**Equilibrium theory**
island biogeography
protistan community: 1105

**Equilibrium**
phytoplankton community
high biomass and low species diversity: 1454

in epilimnion and metalimnion: 690
plankton successional sequence
role of scales of disturbance: 1413

**Equiproportional development**
Copepoda
critique: 727

**Erosion**
bottom
Lake Volkerak (The netherlands): 1682

wind action: 133
effect of agriculture in catchment
Slapton Ley (U.K.): 1261
Norwegian rivers: 928
processes
lake sediment records
review: 405
rate
wind-wave theory
Swedish lakes: 132

**Erpobdella**
*punctata*
predation on *Limnodrilus hoffmeisteri*: 876

**Erpobdellidae**
*Dina krilata* n.sp.: 1585
*Dina svilesta* n.sp.: 1585
*Dina eturpshem* n.sp.: 1585

**Erratum**
Table 3 corrected: 785
equation (1) on page 178 corrected: 1393
figures on pages 95 and 98 corrected: 382
page 37 corrected and printed in full: 1638
Fig. 15 printed afresh: 289

**Escape behaviour**
*Branchiura sowerbyi*
neurobehavioural specializations: 442
sex-specific mortality
*Eudiaptomus gracilis*: 1667

**Esox**
*lucius*
food consumption assessment
bioenergetics model: 1376

**Estuaries**
see also different continents
stratified conditions
behaviour of Pacific salmon: 172

**Estuarine**
benthos
long-term studies
Tees estuary (N.E. England): 1568
circulation
Rufiji delta (Tanzania): 555
mangals
N.W. Sri Lankan coast
floristic composition:42
primary production: 41

**ETS activity**
bacterioplankton
separation of active fraction: 448
plankton and sediment
Lake Balaton (Hungary): 578

**Eucheilota**
*intermedia*
hybridization with *Eutima japonica*: 934
**Eucheuma**
farming
carrageenan properties: 80
*zincinatum*
harvesting
ecological impact: 108

**Euchlanis**
*dilatata*
oviposition behaviour: 1805
*dilatata lucksiana*
abundance in relation to food availability: 474
phosphorus and nitrogen excretion: 677

**Eucyclops**
*serrulatus*
effect of temperature
on development: 1037
on reproduction and longevity: 1037

**Eucypris**
*mareotica*
salinity tolerance: 1495

**Eudiaptomus**
*gracilis*
carbon content
effect of lipids: 940
embryonic duration
effect of temperature: 137
**Europe**
France
Camargue
nitrate loss in water-sediment system: 477
Great Britain
Norfolk Broadland
human impact on Broads: 1177
Norway
biomanipulation development
review: 964
Poland
diatoms
interglacial lake sediments
Middle Pleistocene: 1057
southern Sweden
paleoenvironmental reconstruction
Holocene: 580
Yugoslavia
*Branchinecta*
taxonomy and zoogeography: 1332

**Europe, Bays**
Alfacs Bay (Ebro Delta, Spain)
ammonium release: 1773
Ansedonia Bay (Tyrrhenian Sea, Italy)
heavy metal cycling: 311
Bay of Brest (France)
*Lithothamnion* growth rate: 1358
Bay of Villefranche sur Mer (Mediterranean)
nano- and picoplankton: 1564
Robin Hood's Bay (U.K.)

*Littorina saxatilis* and *L. arcana*: 461
southeastern Kattegat (Sweden)
oxygen consumption: 649
Tees bay (N.E. England)
benthos: 1568

**Europe, Caves**
Hercegovina (Yugoslavia)
*Alona hercegovinae* n.sp.: 215
Trémies cave (France, Marseille)
benthic community: 530

**Europe, Coasts**
Baltic Proper (Swedish and Finnish part)
morphometry and sedimentation: 1801
Belgian coast
colonisation by *Littorina saxatilis*: 841
Catalan coast (NW Mediterranean)
*Aspitrigla cuculus*
feeding habits: 1164
Ligurian coast (Italy)
sediment transport and distribution: 528
Normandy coast (France)
carrageenans
from Rhophyceae spp.: 353
North Icelandic coast
benthic algal associations: 1201
Swedish west coast
*Pleuronectes platessa*
year-class strength regulation: 1342

**Europe, Estuaries**
British North Sea estuaries
conservation: 387
Eastern Scheldt Estuary (The Netherlands)
effects of tide: 1789
Ems estuary (The Netherlands)
effects of turbidity changes and phosphate influx: 408
Forth estuary (Scotland)
nursery and overwintering area
for North Sea fishes: 480
Guadalquivir river estuary (south-west Spain)
*Cyprinus carpio*
life-history patterns: 518
Humber estuary (England)
subtidal benthic communities: 112
Marsdiep basin (Wadden Sea)
phosphorus budget
exchange with North Sea: 1375
Oosterschelde estuary (The Netherlands)
phytoplankton primary production: 1826
flora and fauna: 980
Öre estuary (northern Sweden)
iron, phosphorus and organic carbon
turnover: 547
river-transported sedimentation: 1044
sediment resuspension: 244
river Elbe estuary (Germany)
nutrient fluxes: 1533
Tees estuary (N.E. England)
benthos
long-term changes: 1568
Tiber Rover estuary (Italy)
nutrient remobilisation process: 1293
Tyne Wear Tees and Humber estuaries (NE England)
nature of outflows: 992
Western Scheldt estuary (The Netherlands)
accumulation of cadmium and copper
in *Mytilus*: 718
Palmones River estuary (Spain)
bioturbation effects of *Nereis*
on phosphate flux: 317

**Europe, Fjords**
Hjarbaek Fjord (Denmark)
whitefish stocking
effect on ecosystem: 1388
Oslofjord (Norway)
marine eutrophication
chemical criteria: 6
Roskilde Fjord (Denmark)
nutrient metabolism
benthic-pelagic coupling: 863
Roskilde Fjord (Denmark)
sediment bacterial activity: 536
Vejle Fjord (Denmark)
nutrients
storage, distribution and export: 305

**Europe, Gulfs**
Gulf of Fos (France, Carteau)
nutrient fluxes at sediment-water: 117
particle redistribution
effect of bioturbation: 605
sedimented mussel deposits
degradation rate: 657
Gulf of Gaeta (Tyrrhenian Sea, Italy)
sedimentology and benthic ecology: 527
Gulf of Trieste (North Adriatic Sea)
*Pelagia noctiluca vs Rhizostoma pulmo*
nematocyst morphology: 77

**Europe, Harbours**
Hamburg harbour (Germany)
bioassay responses to sediment toxicity: 18
Langstone Harbour (UK, Hampshire)
*Sertularia cupressina*
settlement and growth: 1527

**Euope, Islands**
Azores of Portugal
*Pterocladia* and *Gelidium*
physiological responses: 553
Balearic Islands
rotifers: 395
Canary Islands (Spain)
*Ingolfiella canariensis* n.sp.: 1787
Tenerife
*Pseudoniphargus candelariae* n.sp.: 1490

**Europe, Lagoons**
Encañizada and Tancada (Spain, Ebro delta)

macrophyte restoration, proposals: 331
Fuente Pierdra lagoon (S. Spain)
dissolved phosphate
concentration and rate exchange
sediment-water interface: 318
La Massona (Spain)
phosphate and calcite saturation: 1008
Lac-lagoon (Bonaire, Netherlands Antilles)
importance for select reef fish: 1766
lagoon of Fuente de Piedra (Spain, Málaga)
*Dunaliella parva*
photosynthesis: 837
lagoon of Tikehau atoll (French Polynesia)
trophic structure and productivity: 292
Le Brusc lagoon (France)
microaerophilic bacteria
distribution: 523
Orbetello lagoon (Grosseto, Italy)
sediment and interstitial water
chemistry: 164
Po delta lagoon (Italy)
nutrient regeneration
bottom sediments: 102
Ria Formosa lagoon (S. Portugal)
intertidal sediments
oxygen profiles: 233
nutrients
benthic mineralization
seasonal and tidal variability in water: 505
Thau Lagoon (France, Mediterranean coast)
nutrients
seasonal variation: 1340

**Europe, Lakes**
Alderfen Broad (eastern England)
*Rutilus rutilus*
population cycle: 1325
Bosherston Lakes (U.K., SW Wales)
trophic status
sediment stratigraphy records: 1402
Crummock Water (U.K.)
magnetic spherules in sediments: 1115
Danish lakes
phosphate release
from aerobic sediments: 832
Danube Delta Lakes (Romania)
phytoplankton and submerged macrophytes:
1738
Esthwaite (U.K., Cumbria)
hypolimnetic protozooplankton: 974
protozooplankton abundance
temporal and spatial patterns: 975
Frederiksborg Castle Lake
Lakes Vaeng and Sbygård (Denmark)
fish manipulation: 835
Frederiksborg Slotsso (Denmark)
*Chaoborus* predation on herbivorous
zooplankton: 306
fish removal
ecological consequences: 1430
Fuente de Piedra (Spain)
burrowing beetles
agents of bioturbation: 588
Grane Langso (Denmark)
planktonic desmids
seasonal periodicity: 1254
Groby Pool (England, Leics)
vegetation change and pollen recruitment
paleoecology: 386
Hjarbaek Fjord (Denmark)
phytoplankton community
in relation to stress and disturbance: 1270
Hudsons Bay and Hoveton Great Broad
Norfolk Broads (eastern England)
benthic invetebrates: 1178
Iberian saline lakes (Spain)
salinity tolerance of ostracod spp.: 1495
La Caldera (Spain)
*Hexarthra bulgarica*
diurnal vertical movement: 275
phyto- and zooplankton relationships: 274
Lago di Candia (Northern Italy)
biomanipulation experiment: 621
biomanipulation of macrophytes: 581
Lago di Mergozzo (Northern Italy)
seston, POC and chlorophyll: 259
Lago Maggiore (Italy)
trophic status and pelagic system: 145
Lake Arreskov (Denmark)
phosphorus and nitrogen regeneration: 47
Lake Arreso (Denmark)
phosphorus release from resuspended
sediment: 1619
resuspension of solids: 927
Lake Aydat (central France)
phytoplankton
size fractions distribution: 30
planktonic rotifers
grazing and assimilation rates: 954
zooplankton community
effects of invertebrate predation: 951
Lake Balaton (Hungary)
chironomid faunal changes
ecological significance: 420
ETS-activity of plankton and sediment: 578
fish-zooplankton-phytoplnkton interactions
enclosures: 1688
food of bream: 170
life history of *Corophium curvispinum*: 1212
stir-up effect of wind on phytoplankton
community: 1288
trophic relationships
between primary producers and fish yields:
171
Lake Banyoles (NE Spain)
bathymetric map: 1165
iron distribution
in suspended sediment and water column:
592
phototrophic bacteria
population dynamics: 591
Lake Bleiswijkse Zoom
Lake Noorddiep (The Netherlands)
biomanipulation: 1125

Lake Bleiswijkse Zoom
Lake Zwemlust (The Netherlands)
food web quantification: 91
Lake Breukeleveen (The Netherlands)
whole-lake food-web
manipulation-experiment: 1742
Lake Constance (Germany)
subfossil remains
of *Bosmina (Eubosmina)*: 764
strontium and calcium cycles
coupling: 1635
trophic interactions: 1821
Lake Constance-Untersee (Germany)
reed decline
impact of shoreline algal wash: 1282
Lake Créteil (France)
microbial activity: 595
phyto- and bacterioplankton
seasonal coupling: 596
Lake Erken (Sweden)
spring phytoplankton bloom
review: 1336
Lake Esrom (Denmark)
respiration
benthic invertebrates: 698
Lake Gallocanta (Spain, Aragón)
hydrogeochemistry: 330
Lake Gårdsjön (Sweden)
*Chaoborus* predation
prey community structure: 1648
Lake Geneva (France/Switzerland)
discrimination of *Rutilus* populations: 208
nutrients in surficial sediments: 1627
organic matter
biogeochemistry: 1538
water transparency: 100
zooplankton abundance: 100
Lake Gjersjoen (Norway)
biomanipulation and food-web dynamics
seasonal stability: 501
Lake Godstrup (Denmark, Jutlane)
phytoplankton
effect of disturbance events: 813
Lake Grevelingen (southwest Netherlands)
*Sargassum* canopy characteristics: 362
Lake Hecklan (Sweden)
phyto- and zooplankton community structure
effect of nutrient addition: 1272
Lake Hovvatn (southern Norway)
sediment pH, redox and phosphorus dynamics
effect of liming and biological activity: 1598
Lake Iso-Hietajärvi (East Finland, Lieksa)
paleolimnology
heavy metal pollution: 1576
Lake Ketelmeer (The Netherlands)
release of metals from sediments: 793
Lake Kjelsåsputten (S.E. Norway)
bacterial production and respiration
effect of dissolved organic carbon: 749
zooplankton
bacteria as P source: 751
Lake Kuortaneenjärvi (Finland)
phytoplankton
growth requirements: 1761
Lake Loosdrecht (The Netherlands)
algal rowth and loss rates
role of light and wind: 633
coupling of phytoplankton and detritus
model: 630
light-limited algal growth
model: 1433
phosphorus cycle
model: 822
phosphorus flow
restoration and resilience to recovery: 1754
phytoplankton detritus
dynamics: 1284
Lake Maarsseveen (The Netherlands)
phosphate limitation
phosphate uptake vs bioassays: 1745
Lake Marken (The Netherlands)
bottom dynamics
silt dividing: 1783
sediment transport and light conditions
model: 1746
Lake Mikolajskie (Poland)
*Vaucheria dichotoma*
ecology: 1286
Lake Mosvatn (Norway)
oligotrophication
result of fish removal: 1493
Lake Nantua (France)
alkaline phosphatase activity: 529
Lake Nemi (central Italy)
detritus deposition
depth-time distribution: 1458
Lake Njupfatet (Sweden)
phosphate demand in phytoplankton
bioassay: 1335
Lake Ohrid (Yugoslavia)
genus *Dina*
intralacustrine speciation: 1585
Lake Orta (Italy)
pollution stress on periphyton: 281
sediment copper concentration
measurement techniques: 118
Lake Päijänne (Finland)
effects of reduced effluent load on water
quality: 648
fallout radionuclides
sedimentation and distribution: 865
fish of stony shores
effects of paper mill effluents: 88
meiobenthos
as environmental indicator: 1503
meiobenthic oligochaetes
in relation to eutrophication: 1504
Lake Pyhäjärvi (SW Finland)
*Coregonus albula*
growth and food: 741
Lake Ringsjön (Sweden)
fish and zooplankton communities
long-term changes: 142
Lake Ros (Northern Poland)

resource partitioning
among juvenile fish: 810
Lake Särkinen (Finland, Sotkamo)
eutrophication history
effects of lake aeration: 1491
Lake Sobygaard (Denmark)
heterotrophic flagellates and ciliates
seasonal trends: 1328
phytoplankton collapses
interactions among plankton and fish: 836
pore water dynamics: 1615
sediment-water interactions: 1617
sorbed phosphorus fraction of sediment
seasonal variation: 1616
Lake Tämnaren (Sweden)
algal production
effect of resuspension: 740
Lake Thingvallavatn (Iceland)
zoobenthos
role in energy flow: 997
Lake Vaeng (Denmark, Jutland)
planktivorous fish removal
phytoplankton reduction: 1618
Lake Vallentunasjön (Sweden)
benthic *Microcystis* biomass and P release: 239
Lake Varese (N. Italy)
sediment core analysis: 1367
Lake Vasikkalampi (Finland)
phytoplankton
diversity and succession: 483
Lake Vechten (The Netherlands)
*Ceratophyllum demersum* litter
decomposition: 157
Lake Veluwe (The Netherlands)
macrophyte growth
enclosures: 1769
Lake Vesijärvi (Finland)
phytoplankton productivity and biomass
role of *Rutilus rutilus*: 780
summer phytoplankton
development and species dominance: 887
Lake Vikteren (Norway)
radio-caesium contamination
in *Salmo* and *Salvelinus*: 1007
Lake Volvi (Greece, Macedonia)
phytoplankton succession and diversity: 1185
Lake Wolderwijd (The Netherlands)
*Dreissena polymorpha*
for water quality management: 1401
Lake Zürich (Switzerland)
productivity
effect of wastewater
phytoplankton batch culture bioassay: 983
Lake Zwemlust (The Netherlands)
hydrophyte-macroinvertebrate interactions: 912
role of macrophytes in biomanipulation: 1287
whole-lake food-web manipulation: 1743
lakes in eastern France
snail and bivalve populations
in relation to physical-chemical variables: 1187
lakes in SW Friesland (The Netherlands)
phosphorus eutrophication: 1747
Lakes Loosdrecht and Maarsseveen (The Netherlands)
picoplankton photosynthesis: 1536
Lakes Suszek, Bledowo and Skrzetuszewskie (Poland)
Cladocera in sediments
impact of prehistoric settlements: 1670
Lakes Suurjärvi and Heinälampi (East Finland)
sediment characteristics
in relation to cultivation history: 668
Lakes Tämnaren, Erken and Valloxen (Sweden)
sediment redistribution: 132
Llangorse Lake (U.K., Wales)
heavy metal pollution
paleolimnology: 851
Loch Affric (N. Scotland)
paleolimnology
recent lacustrine sediment: 357
Loch Tralaig (West Scotland)
phosphorus release from sediments: 884
Loosdrecht lake and Tjeukemeer (The Netherlands)
P-load: 956
phyto-, zooplankton and fish stock: 956
Loosdrecht lakes (The Netherlands)
aquatic macrophytes
importance to trophic state: 1047
hydrology: 487
limnetic zooplankton dynamics and role
lake restoration: 678
phosphorus dynamics
follow up restoration measures: 1751
plankton communities
chemical and physical features: 1757
sediment phosphorus
implications for lake restoration: 883
state of environment: 766
water quality assessment
remote sensing: 409
water quality research
follow-up restoration measures: 400
results: 679
Lough Carrib (Ireland)
Corixidae
distribution: 1729
Lough Neagh (Northern Ireland)
dissolved organic phosphorus
mineralization: 340
planktonic Rotifera
seasonality: 51
population dynamics and production: 51
sedimenting material
seasonal changes: 539
northern Ireland
Lunzer Obersee (Austria)
rotifer distribution
in relation to temperature and oxygen: 1139
Mekkojärvi Lake (Finland)

bacterioplankton production: 944
dissolved organic matter decomposition
littoral-pelagic interchange: 862
extracellular enzymes
origin, distribution and activities: 1206
vertical distribution of bacteria and algae
*Daphnia longispina* grazing: 72
vertical migration
*Daphnia longispina*: 1489
Mondsee (Austria
*Eubosmina* history: 1224
phytoplankton
effects of reduced P and N loading: 433
trophic interactions
pelagic zone: 432
Neusiedler See (Austria)
paleolimnology
succession of Ostracoda: 1005
predation impact of *Leptodora kindti*
on zooplankton community: 747
Popradské pleso lake (Czechoslovakia)
planktonic Cladocera: 1790
Professoren-Weiher (Germany)
coexistence
*Acanthocyclops* and *Mesocyclops*: 1035
Round Loch (SW Scotland, Glenhead)
acidification
response of chironomids and mites: 230
Slapton Ley (U.K., Devon)
paleolimnology: 1261
sediment chemistry
sequential analysis: 738
Soppensee (Switzerland)
varved sediments: 1009
Sovdeborgssjon Lake (southern Sweden)
predation by piscivorous birds: 1857
Starnberger See (Germany)
profundal Chironomidae
phenology and distribution: 607
Tjeukemeer (The Netherlands)
biotic and abiotic interactions
in relation eutrophication: 955
trophic interactions
seasonal variation: 1775
Veluwemeer (The Netherlands)
nutrients, algae and transparency
effect of flushing: 814
Windermere South Basin and Malham Tarn
(U.K.)
seasonal nutrient limitation: 105

**Europe, Man-made water bodies**
Azibo reservoir
zooplankton community
seasonal fluctuation: 1762
East Anglian reservoirs (U.K.)
phosphate exchange
sediment-water interface: 1399
Ebro basin reservoirs (N.E. Spain)
physiographic disturbances: 1391
Kis-Balaton reservoir (Hungary)
nutrient removal rates: 1671
Kremasta reservoir (Greece)
biology of *Leuciscus svallize*: 463
La Concepción reservoir (Málaga-Spain)
sediment resuspension: 585
Lake Zegrzynskie (Poland)
waterfowl distribution
in relation to molluscs: 1636
London reservoirs (U.K.)
limnological management: 457
biomainpulation: 457
North and South Lakes (Ireland, Co. Wicklow)
trout, minnow and stckleback
feeding relationships: 185
Pareloup reservoir (France, Massif Central)
bacterioplankton
abundance, biomass and production: 972
Ponsonby Tarn (U.K., Cumbria)
radionuclides in sediments: 195
River Danube reservoir (Austria, Altenwörth)
Oligochaeta
trace element concentrations: 1477
Sainte Croix (France, Provence)
niche overlap in fish fauna: 238
Saidenbach reservoir (Germany)
water transparency
influence of crustacean plankton: 778
Sulejow Reservoir (central Poland)
biomanipulation
use of fry communities: 1883
Tavropos Reservoir (central Greece)
phytoplankton: 1186
physical-chemical features: 1186
Wolderwijd (The Netherlands)
*in situ* primary production: 139
biomass and light regime: 139
Sainte-Croix reservoir (S.E. France)
Cladocera horizontal distribution
effect of selective fish predation: 1353

**Europe, Marshes**
Basque Country
*Spartina maritima*
decomposition dynamics: 1359

**Europe, Pools**
macrofaunal community types
The Netherlands: 1767

**Europe , Ricefields**
Ebro Delta (N.E. Spain)
drainage channel response
to nutrient loading: 544
Reggio Emilia ricefield (Italy)
Cladocera
seasonal succession: 524

**Europe, Rivers**
Albenche river (France, Aix les bains)
consequences of excess organic load: 543
Andelse Maas of River Meuse (The
Netherlands)
planktonic algae

phosphorus removal: 187
Ardèche River (France)
benthic macroinvertebrate communities
seasonal dynamics: 436
Ariège and Garonne rivers (France)
seston constituents
seasonal dynamics: 296
Arroyo Chabatchos (Iberian Peninsula)
*Anguilla anguilla* removal
effects: 1002
Basque rivers (Spain)
macroinvertebrate communities
sampling strategy: 1450
Breitenbach stream (central Germany)
chironomid communities
seasonal dynamics: 1246
French Upper Rhone
discrimination of *Rutilus* populations: 208
Llobregat River (Spain, Bracelona)
ciliated protozoan communities
ecology: 644
Meuse River (Belgium, Liège area)
bryozoan colonies
heavy metal and PCB contamination: 744
Po River (Italy, Viadana)
rotifer abundance and diversity: 525
River Chew (S.W. England)
chironomid larvae
downstream drift: 1842
River Danube (Hungary)
*Perca fluviatilis*
population density: 686
periphyton abundance and diversity
effect of disturbance: 10
phyto- and zooplankton relationship: 200
River Dee (U.K., North Wales)
*Platichthys flesus*
diet and growth: 1812
River Garonne (France)
inorganic phosphate
in exposed sediments: 502
River Krutynia (Masurian Lakeland, Poland)
organic matter: 1377
River Kyrönjoki (western Finland)
sedimentation in delta
influence of land use: 739
River Lambourn (U.K., Berkshire)
invertebrates
spatial and temporal occurrence: 1867
River Moselle (France)
phytoplankton community
structure and diversity
effect of disturbances: 416
River Rhine (The Netherlands)
elemental composition (C,N,P)
effect of phytoplankton: 13
nitrification rate
indicator of toxicological quality: 199
phosphorus discharges into Dutch Wadden Sea: 853
River Romua (Norway)
phosphorus availability
phytoplankton bioassay: 174
River Thames (England)
centric diatoms
taxonomy: 1629
Rivers Severn and Wyne (U.K., West Wales)
*Alosa fallax fallax*
juvenile and adult diet: 60
Rivers Meuse and Geul (The Netherlands)
flood deposits
metal content variability: 979
Rivers Nitelva, Leira and Romua (Norway)
erosion, P and phytoplankton: 928
Rivers Widawka and Grabia (Central Poland)
Chironomidae production: 670
rivers of Lincolnshire and South Humberside (England)
fish community structure: 1319
rivers of Northeast Scotland
physicochemical characteristics: 136
rivers of Seine Basin (France)
characterization
by index of biotic integrity: 1262
Rhône River (France)
interstitial assemblage
effects of spates: 1066
organic and inorganic matter distribution
effect of plume front: 987
Sierra Nevada (Spain)
*Cricotopus (Cricotopus) nevadensis* n.sp.: 277
Stampen stream (southern Sweden)
Gammarus diel activity
comparison: 34
Tejo River (Portugal)
$^{60}Co$ behaviour: 1028
Warta River (central Poland)
fish production
postimpoundment study: 1317
preimpoundment study: 1318

**Europe, Seas**
Adriatic Sea (Italy)
*Pelagia noctiluca*
reproduction: 1460
Dutch Wadden Sea
response to phosphorus discharges: 853
Kattegat Sea (Sweden)
fate of nitrogen
in Laholmsbukten embayment: 538
Mar Piccolo (Mediterranean Sea, Italy)
seaweeds of economic importance: 283
Mediterranean Sea (Italy)
interstitial Ciliata: 1496
phenolic compounds
in water and sediments: 293
North Sea (Denmark/Norway)
inorganic nitrogen compounds
porewater chemistry: 1841
sediment analysis
by microbial variables: 460
northern Baltic
epilithic algal communities
structure and dynamics: 1605

Norwegian Sea
Nematod taxonomy: 833
southern Baltic Sea
*Nodularia spumigena*
toxicity and isolation: 1581
Tyrrhenian Sea (Italy)
benthic communities
relationship with organic matter: 326

**Europe, Straits**
Straits of Messina (Italy)
lignicolous marine fungi
distribution: 651

**Eumedusoid**
*Samuraia tabularasa* n.gen. n.sp.: 1051
**Eunapius**
*fragilis*
gemmules
salinity tolerance: 512

**Euphotic volume**
Wolderwijd (The Netherlands): 139

**Euryhaline**
*Mesopodopsis* spp.: 1860

**Eurytemora**
*affinis*

**Eutima**
*japonica*
hybridization
with *Eucheilota intermedia*: 934

**Eutrophication**
athalassic lakes (Australia): 1710
biotic and abiotic interactions
Tjeukemeer (The Netherlands): 955
Blue Lagoon and Lake Freshwater (Australia): 1285
Brewery and Boating Lakes (Nigeria, Jos): 46
Calder Lake (USA): 1817
canals and lakes
Rijnland area (The Netherlands)
relationship with hydrochemistry and phytoplankton: 901
chemical criteria for Oslofjord (Norway): 6
coastal lakes (Southwest England)
recommendations for restoration: 1259
contribution of wetlands: 601
control
by dredging and biomanipulation
peaty ditches (North Holland): 787
by fish removal
Lake Klein Vogelenzang (The Netherlands): 1741
Lake Vaeng (Denmark, Jutland): 1618
by large-bodied cladocerans: 624, 1697
by macrophyte harvesting
Lago di Candia (Northern Italy): 581
by reduction of planktivorous fish production
and recruitment: 663
implications for zoo- and phytoplankton linkages: 484
sediment P fixation with iron (III) chloride
Lake Groot Vogelenzang (The Netherlands): 182
crustacean zooplankton
structure and grazing activities
comparison: 675
Danube Delta Lakes (Romania): 1738
dynamic P-balance model
for Tjeukemeer: 1749
East Anglian reservoirs (U.K.): 1399
East Lake (China, Wuchang)
biomaniplulation with planktivorous fish: 1151
effect of erosion of detritus in catchment
Slapton Ley (U.K., Devon): 738
effect of fish removal
Frederiksborg Slotsso (Denmark): 1430
effect of flushing
Veluwemeer (The Netherlands): 814
effect of sediment accumulation
Slapton Ley (U.K., Devon): 1261
effect of water level lowering
Lake Sevan (Armenia): 1307
effect on submerged vegetation
alternative mechanism: 231
Embalse del Rió III Reservoir (Argentina): 1061
external phosphorus loading
Bosherston Lakes (U.K., SW Wales): 1402
fish manipulations
Danish lakes: 834, 835
follow-up restoration measures
departmental policy
Loosdrecht lakes (The Netherlands): 400
Hollands Ankeveen lakes: 1772
history
effects of lake aeration
Lake Särkinen (Finland, Sotkamo): 1491
impact on biogeochemistry of humic substances: 394
in relation to phytoplankton biomass
and P regeneration by zooplankton
Polish lakes: 475
in relation to water quality management: 370
indicator organisms
meiobenthos: 1503
La Concepción reservoir (Málaga-Spain)
sediment resuspension: 585
Lago di Candia (Northern Italy)
results of biomanipulation: 621
Lago Maggiore (Italy): 145
Lake Balaton (Hungary)
effects of waterfowl: 603
nutrient removal rates
by Kis-Balaton reservoir: 1671
Lake Geneva (France/Switzerland): 100
Lake Kuortaneenjärvi (Finland): 1761
Lake Loosdrecht (The Netherlands): 633, 822, 1433
Lake Manzala (Egypt): 890, 891

Lake Nantua (France): 529
Lake Rotoiti (New Zealand, North Island): 1778
Lake Ringsjön (Sweden): 142
Lake Suwa (Japan)
effect of whitefish predation: 706
Lake Vesijärvi: 887
Loosdrecht lakes (The Netherlands): 676, 766,
Lough Neagh (Northern Ireland)
sedimenting material
seasonal changes: 539
Marsdiep basin (Wadden Sea): 1375
modelling
problems: 628
Mondsee (Austria)
restoration
effects of reduced P and N loading: 433
monitoring and assessment
SW Frisian lakes (The Netherlands): 1748
N:P ratios
eutrophic lakes (Canada, Manitoba): 107
information from Cladocera: 1670
Paranoá Reservoir (Brasília-Brazil)
biomanipulation with planktivorous fish: 1640
phosphorus control
Loosdrecht lakes (The Netherlands): 883
phosphorus removal
by sediment dredging: 1740
phosphorus research
lakes in SW Friesland (The Netherlands): 1747
policy
Loosdrecht lakes (The Netherlands): 911
relationship with meiobenthic oligochaetes
Lake Päijänne (Finland): 1504
research
Loosdrecht lakes (The Netherlands)
results: 679
reservoir
hydropsychid guild
downstream changes: 263
restoration measures
Loosdrecht lakes (The Netherlands): 678
Rhône River (France): 1003
River Meuse (The Netherlands): 187
River Danube (Hungary): 200
role of mud blankets
Laholmsbukten embayment
Kattegat Sea (Sweden): 538
Roskilde Fjord (Denmark): 863
shallow lake ecosystems
The Netherlands
epilogue: 1752
shallow macrophyte-dominant lakes
control measures: 1176
Tjeukemeer (The Netherlands): 1775
West Point Lake (USA): 121

**Eutrophy**
bacterioplankton
dynamics: 162

**Evaporative water loss**
intertidal prosobranchs: 1117

**Evapotranspiration**
rates
hydrophyte-dominated marshes: 601

**Evenness**
diatom community
Kuparuk River (Alaska): 1142

**Evolution**
body size and bud size
*Hydra*: 1590
Oligochaeta: 226
protonephridia
Platyhelminthes: 1453
Rotifera: 1800

**Exchange**
phosphorus
between Marsdiep basin and North Sea: 1375

**Excrement**
of birds
effect on eutrophication: 603

**Excretion**
gulls
P and N contributions: 1357
phosphorus and nitrogen
*Euchlanis*: 677
rate
*Lampsilis radiata siliquoidea*: 1220
*Neomysis integer*: 1820

**Excretory system**
-specific
monoclonal antibody production
*Phagocata vivida*: 1570

**Exergy**
in ecological models: 854

**Exocytosis**
turbellarians: 1411

**Exoenzyme**
activity
in epilithic biofilms: 1580
in sedimented mussel deposits
Gulf of Gos (France, Carteau): 657
macromolecule hydrolysis: 558

**Exoskeleton**
taxonomy
Nausithoidae: 825

**Exotic**
*Corbicula fluminea*
growth and overwintering survival
St. Clair River (USA, Michigan): 559

*Dreissena polymorpha*
impact on native unionid clams
Lake St. Clair (Canada/USA): 1023

**Experiments**
$^{110m}$Ag transfer from sediment to biota
quantification: 594
bioassays
problems of choice and implementation: 262
bioconversion
macroalgal biomass: 1162
carbaryl
effect on zooplankton communities
influence of *Chaoborus* density: 707
carp-tubificid interactions: 1432
competition
*Fucus* spp.: 288
*Synchaeta oblonga* vs *Scapholeberis kingi*: 616
culture media
for planarian cells: 573
ecosystem control mechanisms: 1257
effect of *Daphnia* on filament length
blue-green algae: 390
estimation of food intake
by *Coregonus albula* larvae: 871
feeding habits
*Acanthodiaptomus denticornis*: 953
larval *Mirogrex terraesanctae*: 85
feeding kinetics
*Brachionus plicatilis*: 918
fish zooplanktivory
effects on phytoplankton: 1248
in Finnish limnology
trends: 1507
nutrient enrichment: 356
on *Branchiura* with LAS-treated sediment: 278
predation by *Micropterus salmoides*: 366
$^{226}$Ra and $^{45}$Ca accumulation
by freshwater turtles: 8
role of resuspended sediment: 1619
strain selection
*Gracilaria*: 989
stream macroinvertebrate benthos drift
effect on benthic abundance: 1856
with zooplankters: 1624

**Exploitation**
mangrove and associated fishery resources
Zanzibar: 1235
*Thymallus arcticus*: 270

**Export**
nitrogen and phosphorus: 1329
water and sediment: 925

**Extensibility**
of stems
macrophyte adaptation in moving water: 223

**Extinction**
in microbial colonisation
temporaty aquatic systems: 1105
of calanoids
in outdoor enclosures: 1624

**Extracellular enzymes**
polyhumic lake
origin, distribution and activities: 1206
role in detritus processing: 1205

**Extracellular matrix**
hydrozoan jellyfish: 1526
microturbellarians: 998

**Extraction**
phycocolloids from macroalgae: 1162

**Extrapolation**
hazard assessment
using aquatic microbial communities: 253

**Exudate**
uptake by bacteria: 308

**Eyes**
number in relation to body length
*Polycelis*: 23

**Eyestalk**
ablation
effect on *Macrobrachium olfersii*: 1118

**$F_1$ conchocelis**
*Porphyra yezoensis*
degree of self-fertilization: 1569

**Factor analysis**
particulate carbohydrates and aminoacids: 885

**Faeces**
of grass carp
utilization by *Asellus aquaticus*: 1333

**Fatty acids**
composition
as taxonomic index
marine microalgae: 1183
*Brachionus plicatilis*
intensive cultures: 816
*Chlorella*: 1684
cysts
*Streptocephalus* spp.: 1207
*Gracilaria*: 64
nauplii
Greek *Artemia* strains: 1

**Faunal**
changes
Aral Sea: 27
relation to abiotic factors
River Dan (Israel): 406

**Favia**
*favus*
larval development and survivorship: 1572

**Fecundity**
*Artemia*
effect of salinity: 115
*Clarias* spp.
Anambra River basin (Nigeria): 500
*Cyprinus carpio*: 518
estimation
effect of oocytic atresia
rabbit fish
Kenyan marine inshore waters: 1253
fish populations
indicator of environmental health: 1204
*Galaxias occidentalis*: 1315
inverse relationship with density
*Tubifex tubifex*: 191
*Moina macrocopa*
effect of algal food type: 1076
*Perca fluviatilis*
acidified river: 1000
rotifers and cladocerans: 456
*Synodontis schall*: 695
*Thermocyclops crassus*: 1038

**Feeding**
*Alestes baremoze: 714*
*Alosa aestivalis: 671*
anuran larvae: 1774
arctic grayling: 1256
*Artemia franciscana*: 9
*Brycinus nurse*: 714
behaviour
*Acanthodiaptomus denticornis*: 953
*Aequorea victoria*: 61
*Alosa fallax fallax*: 60
anemone: 320
*Astrobrachion constrictum*: 650
*Aurelia aurita: 61*
bluegills: 84
corals
physiological control: 973
*Daphnia galeata*: 1658
*Entacmaea medusivora* n.sp.: 509
*Leuciscus svallize*: 463
*Littorina littorea*: 802
littorinid snails: 1251
microflagellates: 1360
*Oxytricha bifaria*: 1422
*Phagocata vitta*: 66
*Pleurobrachia pileus*: 1175
*Sericostoma personatum*: 1794
*Spumella*
implications for bacterial size: 767
*Bosmina longirostris*
interference of *Asterionella formosa*: 97
*Brachionus calyciflorus*: 1639
conditions for zooplankton: 956
corals
effect of water movement: 1544
*Coregonus albula* larvae: 871
ctenophores
ciliary movements: 1084
*Diplonychus rusticum*
effect of prey density on meal size: 445
ecology
predatory tendencies
*Streptocephalus proboscideus*: 1136
habits
*Aspitrigla cuculus*: 1164
*Mullus barbatus*: 625
*Mullus surmuletus*: 625
Trichoptera: 1784
*Upeneus asymmetricus*: 625
*Upeneus moluccensis*: 625
herbivore response
to fresh and decomposing macrophytes: 1666
kinetics
*Brachionus plicatilis*: 918
*Leptodora kindti*
impact on zooplankton community: 747
mechanism
*Daphnia galeata*: 1735
*Mesostoma lingua*
on *Daphnia magna*: 455
*Mirogrex terraesanctae* larvae: 83, 85
patterns
insect larvae: 1298
rate
*Cyclops kolensis*: 14
*Cyclops vicinus*: 14

*Nucella lapillus*: 1297
*Nephelopsis obscura*: 388
planktivorous fish: 1640
regime
of test organism
bearing on toxicity test results: 965
*Tachypleus gigas*: 295

**Fen ecosystems**
Vecht River plain (The Netherlands)
restoration measures: 106

**Fertility**
*Gelidium vagum*
self-fertilization complication
genetic alleviation: 1124

**Fertilization**
ammonium
effect on growth and carrageenan content
*Kappaphycus alverezii*: 1466
effect on abundance and cycling
of dissolved organic carbon: 1522
effect on phyto- and zooplankton structure: 1272
frequency
*Batrachospermum boryanum*: 697
influence on algal microfossil assemblages: 426

**FETAX test**
identification of developmental toxicants: 101

**Fetch**
effect on spatial variation of periphyton: 282

**Fibrillar content**
of cell wall
*Gracilaria verrucosa*: 128

**Fibronectin**
in extracellular matrix
hydrozoan jellyfish: 1526

**Field experiments**
*Bosmina* feeding
interference of *Asterionella formosa*: 97
feeding habits
*Littorina scutulata* and *L. sitkana*: 1786
*Mirogrex terraesanctae* larvae: 83
grazing rates: 304
nitrate reductase activity
freshwater phytoplankton: 1869
planktivorous feeding of arctic grayling: 1256
release of metals from sediments
Lake Ketelmeer (The Netherlands): 793

**Field-flow fractionation**
study of particulate matter: 125

**Filamentous algae**
Mougeotia sp.
contribution to N-limitation of phytoplankton:
1287
blue-greens
filament length
effect of *Daphnia magna*: 390
bacteria
temporal distribution in sediment
Lagoa do Infernao (SP, Brazil): 558

**Filinia longiseta-terminalis complex**
problems in taxonomy: 1471

**Filter-feeding**
*Arctopsyche grandis: 1784*
bighead carp: 1277
effect of *Crassostrea gigas* on biosedimentation:
418
*Brachycentrus occidentalis*: 1784
*Daphnia*: 304
*Diaptomus*: 304
Simuliidae vs Culicidae: 1073

**Filtering combs**
morphology
*Daphnia galeata*: 1658

**Filtration**
activity
*Anodonta cygnea*
effect of copper and lead: 1482
apparatus
SEM morphology
*Streptocephalus* spp.: 1135
changes in filtering comb
*Daphnia pulicaria*: 1355
rate
*Dreissena polymorpha*: 1401
*Kellicottia*: 954
*Keratella cochlearis: 954*
*Keratella quadrata: 954*

**Fine-grained sediments**
relation to dispersion: 1594
resuspension, deposition and transport
numerical model: 1886

**Fire**
catchment disturbance
effect on stream macroinvertebrate
communities: 1426
effect on water chemistry
mountain stream (South Africa): 227

**Fish**
abundance
Lake Mead (USA): 1609
*Aspitrigla cuculus*
feeding habits: 1164
assemblage 'health'
use of Index of Biotic Integrity: 1262
assemblage structure
North American streams: 503
behaviour
chemical regulation

improvement water quality: 623
*Callionymus (Calliurichthys) marquesensis* n.sp.: 562
*Callionymus (Calliurichthys) pleurosticus*: 562
*Callionymus (Spinicapitichthys) obscurus* n.sp.
Pacific Ocean: 562
*Clarias* spp.
reproductive biology
Anambra River basin (Nigeria): 500
community replacement by selenium poisoning
influence on zooplankton: 1058
community structure
Forth estuary (Scotland): 480
Gebel Aulia Reservoir (Sudan): 713
indirect effects on submerged vegetation: 231
River Lincolnshire (England): 1319
River South Humberside (England): 1319
community structure and function
spatial changes
saline stream: 1573
composition
rivers and lakes
Sierra Leone (West Africa): 805
contribution to fisheries
Lake St. Clair (Canada/USA): 977
*Coregonus albula*
growth and food consumption
bioenergetics model: 741
culture
Malaysian ricefields: 32
density and production
tropical rain forest stream: 1320
effects of paper miil effluents
Lake Päijänne (Finland): 88
fish-fish relationships: 1145
fish-environment relationships: 1145
food organisms
drift: 242
foraging efficiency of *Perca fluviatilis*
effect of prey type and density: 488
fungal infections
freshwater fish pond (Nigeria): 1266
in relation phyto- and zooplankton biomass ratio: 501
interactions with phyto- and zooplankton
Lake Sobygård (Denmark): 836
larvae
distribution and abundance
St. Clair River (Canada, Ontario): 985, 986
*Mirogrex terraesanctae*
feeding habits: 83, 85
levels and effects of contaminants
Detroit River (USA, Michigan): 1054
manipulation
ecosystem control mechanism
Toolik Lake (USA, Alaska): 1257
effect on plankton biovolume
Lago di Candia (Northern Italy): 621
whole-lake experiments
Danish lakes: 834
mercury contamination
Tokuyama Bay (Japan): 1218
niche overlap
Sainte Croix (France, Provence): 238
north temperate VS
south temperate streams (USA): 1188
nutrition
Anostraca as food: 1209
of Lac-lagoon (Bonaire
Netherlands Antilles): 1766
of Nigerian estuaries: 39
of St. Clair River (Canada, Ontario): 661
of St. Marys River (Canada/USA): 877
Pilcomayo-Paraguay basins
Argentina: 1132
populations
characteristics
indicators of environmental health: 1204
size estimation
Tuesday Lake (USA): 736
acoustic assessment: 1802
*Cottus cognatus* in arctic lakes
comparison: 716
in tropical rice fields (Malaysia): 33
lentic environments
Paraná River (Argentina): 343
predation levels
density and size distribution of *Daphnia*: 284
predation
on *Gammarus pulex*: 34
on zooplankton: 956
artificial refugia for large-bodied Cladocera: 804
by lake trout and round whitefish on molluscs: 1133
effect on Cladocera assemblage
Popradské pleso lake (Czechoslovakia): 1790
effect on cladoceran body size: 1324
effect on horizontal distribution of Cladocera: 1353
effect on periodicity of cladocerans: 1361
effect on plankton communities
biomanipulated vs unmanipulated lakes: 1014
effect on population structure
*Eurytemora affinis*: 280
effect on vertical migration
*Daphnia longispina*: 708
on *Daphnia*: 1343
on *Eudiaptomus*
sex-specific mortality: 1667
production
pre- and postimpoundment study
Warta River (Poland): 1317, 1318
removal
ecological consequences
Frederiksborg Slotsso (Denmark): 1430
effect on biological and chemical structure
Lake Vaeng (Denmark, Jutland): 1618
induction of oligotrophication
Lake Mosvatn (Norway): 1493
lake restoration measure: 1741, 1744
response of plankton and turbidity
Lake Christina (USA, Minnesota): 717
role in food-web manipulation

whole-lake experiments
in Europe: 134
salinity tolerance
Murray-Darling River system (Australia): 1847
stock manipulation
effect on trophic status
ditches (North Holland): 787
lake restoration: 784
yield
in relation to chlorophyll concentration and morphometry
Lake Balaton (Hungary): 171
Kilifi coral reef (Kenya): 1255
zooplanktivory
effect on phytoplankton: 1248

**Fish migrations**
via chemical regulation
water quality improvement: 623

**Fish monitor**
episodic pollution: 1540

**Fish pond**
amino acid minralization by bacteria: 1160
cladoceran periodicity
effect of fish predation: 1361

**Fisheries**
brown trout
effects of angling: 214
introductions
tilapiine: 94
Kilifi coral reef: 1255
Kuwait coast
environmental impact: 855
*Lates niloticus* and *Oreochromis niloticus*
Nyanza Gulf, Lake Victoria (Kenya): 1264
mangroves (Malaysia, Selangor): 1508
*Oreochromis*
Lake Victoria: 94
West Arfican clam
Cross River system (Nigeria): 1174
resources of mangroves (Zanzibar)
status and exploitation: 1235

**Fission**
impact on population structure
*Zoanthus sociatus* and *Z. solanderi*: 872

**Flagellata**
seasonal variation in density
Lake Sobygaard (Denmark): 1328

**Floating-leaved plant**
*Nymphaea tetragona*
annual production and life span: 939
**Flocculation**
fine-grained sediments
effect on vertical transport: 993
role as transport vector
influence of microbiological factors: 1275

Flooding
effect on accumulation of polyphenolic compounds
temporary ponds (Spain): 1553
effect on seasonal density changes
Ephemeroptera: 684
effect on species richness of midges: 1379
of pools
intermittent tropical forest stream
seasonal limnology: 291

**Floodplain**
dynamics
role of leaf litter macroinvertebrates: 1134
ecology
tropical Asian rivers
review: 444
Lake Chenhu (China, Hanyang)
seston composition and dynamics: 1824
lakes in the lower Niger delta (Nigeria)
Rotifera composition and diversity: 1548
Special Zoological Reserve
Kopacki Rit (Yugoslavia)
vegetation: 1716
level
via mineral analysis by QEM-SEM technique: 1435

**Flounder**
diet and growth
River Dee (North Wales): 1812

**Flow cytometry**
for ploidy analysis
in planarians: 783
phytoplanktonic cell identification and counting: 93

**Flow injecton analysis**
phosphorus
whole-stream release studies: 726

**Flow**
around obstacles
effect on micro-distribution
larval simuliids: 779
patterns
around cocoons and pupae
black flies: 499
chalk streams: 147
regime
in relation to water quality management: 370
visualization
microhabitat partitioning
larval *Austrosimulium*: 779

**Flowering pattern**
submerged macrophytes: 443
**Fluctuations**
primary productivity
Lake Tahoe (USA): 826

**Fluid dynamics**
amphipod swimming
methods: 202

**Fluid mechanics**
ctenophores
ciliary movement
in relation to locomotion and feeding: 1084

**Flume studies**
analytical model
sediment entrainment in turbulent flow: 58

**Fluorescence emission spectroscopy**
for clones of *Synechococcus* group: 1030

**Fluorescence**
of algae
technique for toxicity assessment: 1198

**Fluoride**
levels
in water and tilipia tissues
Lake Magadi (Kenya): 615

**Flushing**
effect on nutrients: 814
effect on algae and transparency: 814

**Fluxes**
cation export
Alaskan arctic watersheds: 348
$CO_2$ and $CH_4$
lakes and rivers (arctic Alaska): 904
nutrients
in bottom sediments
effect of bioturbation: 102
particle redistribution
effect of bioturbation: 605
phosphorus
sediment-water interface: 317, 350
zinc in lake sediments
effect of tubificids: 1623

**FMRF-amides**
nerve cells
coelenterates: 1350
role in neurotransmission
*Hydrozoa*: 1630

**Food**
also see Diet
assimilation
bighead carp: 1277
availability
for benthic invertebrate populations: 1178
for *Daphnia*: 390
chain
algae-crab: 1436
reversible carnivory
*Oxytricha bifaria*: 1422
of plankton
effect of humic substances: 849
humic lake
mesocosm experiment: 1487, 1488
choice
freshwater snails: 1029
composition
*Abramis brama*
Lake Balaton, (Hungary): 170
concentration
*Brachionus angularis*
effect of temperature: 1807
effect on inconsistencies in *Daphnia* bioassay: 90
consumption
*Coregonus albula*: 741
deficiency
cyst formation in *Tubifex*: 54
effect on copepodid-naupliar ratio
calanoid copepods: 727
*Euchlanis dilatata lucksiana* abundance: 474
for epiphytic midge larvae: 1345
for non-fish vertebrates: 73
for *Phagocata*: 66
from seaweeds
commercial resources
worldwide distribution: 1113
habits
young-of-the-year *Lota lota*: 1473
improvement
by *Chaoborus* predation
Lake Gårdsjön (Sweden): 1648
ingestion
by planarian intestinal cells: 807
intake estimation
in *Coregonus albula* larvae: 871
limitation
effect on body size
planktonic rotifers and cladocerans: 456
effect on generation time
*Acanthocyclops robustus*: 368
mussel growth and condition: 1597
predatory tendencies
*Streptocephalus proboscideus*: 1136
preference
amphipods
nature of fore-gut morphology: 328
*Dytiscus latissimus* larvae: 843
*Dytiscus circumcinctus* larvae: 843
*Littorina littorea*: 802
quality
*Brachionus plicatilis*
life history characteristics: 917
effect on niche overlap
between herbivorous cladocerans: 750
of detritus
in relation to growth and survival of tadpoles
*Bufo americanus*: 20
quantity and quality of seston
Lake Chenhu (China, Hanyang): 1824
rotifers as live feed to fish larvae
in aquaculture: 1011
selectivity

*Abramis brama*: 170
benthivorous birds: 1636
*Daphnia*: 728
*Littorina scutulata*: 1786
*Littorina sitkana*: 1786
*Tachypleus gigas*: 295
source
evaluation
in *Neomysis intermedia*: 1714
web
manipulation
effect on lake restoration
Lake Zwemlust (The Netherlands): 1743
role of fish: 134
impact of planktivorous
East Lake (China, Wuchang): 1151
in relation to phosphorus cycling
Lake Loosdrecht (The Netherlands): 1754
pisci- and planktivorous fish and zooplankton
Tjeukemeer (The Netherlands): 1775
quantification
Lake Bleiswijkse Zoom (The Netherlands): 91
Lake Zwemlust (The Netherlands): 91

**Foraging behaviour**
littorinid snails: 1251
odonate larvae: 844
*Perca fluviatilis*: 488

**Forest**
fire
effect on dissolved organic carbon: 1522
streams
biology
effects of forest clear-cutting and soil disturbance: 770

**Forested catchment**
turbidity and suspended sediment relationship: 620

**Form-function analysis**
photon capture
for seaweeds: 1386

**Formquotient**
shape definition
polyp tubes in Nausithoidae: 825

**Fossil**
pigments
stratigraphy
Lake 817 (Canada, Newfoundland): 1472
Chironomidae
stratigraphy
Lake Grasmere (New Zealand): 1516

**Founder effects**
in *Littorina saxatilis*
biochemical genetics: 841

**Fourier analysis**
shell form
in *Crassostrea cucullata*: 1673

**Fractionation**
sediment organic phosphate
method: 393
sediment phosphate: 669

**Fragmentation**
effect on decomposition rate of plant material: 703
losses
in litter bags
influence of bag designs: 1651

**Fredericella**
*sultana*
North American vs European forms: 1863

**Freezing**
of labelled cladocerans: 1182

**Freshwater**
accumulation of $^{110m}$Ag in biota: 594
algae
growth rate
in relation to light and temperature: 384
benthic macroinvertebrates
colonisation and succession: 116
Biological Association (U.K.)
riverine research activities: 148
*Chlorella*
nutritional effect on *Brachionus* growth: 759
community structure
impact of planktivore abundance: 1120
copepods
embryonic development duration: 465
Crustacea
*Gammarus pulex*
effect of zinc and low pH: 1226
variation in acid tolerance: 566
Protozoa: 1589
ecosystems
bioassays
review: 1046
epigean
*Rhipidogammarus rheophilus* n.sp.
Tenerife (Canary Islands): 1655
fish
community
Lake Ringsjön (Sweden): 142
fungal infections: 1266
predation by birds: 1857
ice
effect on PAR transmittance: 190
macrofauna
lentic waters
Yemen Arab Republic: 25
macrophytes
edibility to invertebrate herbivores: 1666
molluscs

Yemen Arab Republic: 24
mussels
accumulation of polycyclic aromatic hydrocarbons: 878
accumulation of *Oscillatoria* toxin: 490
*Neoboeckella loffleri* n. gen. n. sp.
Bolivia: 120
nutrient dynamics vs pelagic food web: 267
phytoplankton
Warri/Forcados Estuary (Nigeria): 1278
red algae
*Batrachospermum boryanum*
reproductive ecology: 697
*Lemanea fucina*
phenology: 1782
Rhizopoda
ecology: 155
snails
Namibia/Botswana: 236
sponges
taxonomy: 1351
sulphate
colorimentric determination: 629

**Freshwater Biological Association (U.K.)**
origin, aims and growth: 148

**Frey, David**
tribute: 1833

**Fringing mangals**
N.W. Sri Lankan coast
floristic composition: 42
primary production: 41

**Fucales**
competition
*Fucus* spp.: 288
subtidal regions
New Zealand: 1520
*Sargassum* canopy
characteristics: 362
*Sargassum muticum*
ecology
Baja California (Mexico): 15

**Fucose-containing polysaccharides**
from brown algae: 1241

**Fucus**
competition
between *spiralis* and *vesiculosus*: 288
seaweed resources: 680
community structure
*serratus*
effect of epiphyte-grazing by *Littorina*: 1845
*vesiculosus*
functional response to tributyltin: 996

**Fukaurahydra**
*anthoformis*
morphology, ecology and life cycles: 1872

**Fulvic acid**
effect on litter decomposition: 1371

**Functional**
bioassays
zooplankton
comparison: 1119
coupling
land-water interface
with dissolved organic matter: 1830
feeding groups
bacterial flora
eucalypt leaf breakdown: 206
insects
headwaters of Buffalo River (South Africa): 1298
macroinvertebrates
effect of power peaking flows: 1724
effect of pool and riffle geomorphology: 241
form
seaweed culture: 710
Chlorophyta: 1001
organization
stream communities
effect of riparian vegetation: 446
response
predation of *Chaoborus*: 933
structure
lotic communities
effect of insecticides: 1799
tests
ecosystem health: 1195

**Fundulus**
*catenatus*
oxygen consumption rates
effect of salinity: 1715

**Fungi**
in epilithic biofilms: 110
infections of fish
freshwater fish pond (Nigeria): 1266
marine
alginate decomposition
alginase enzyme system: 1517
tropical marine ecology (Brunei): 799

**Fynbos**
ecosystem productivity
effect of fire: 227

**Galaxias**
*occidentalis*
growth and diet: 1316
reproductive biology: 1315
size and age composition: 1316
growth and diet: 1316

**Gambusia**
*affinis*
role in degradation of lakes (Australia): 1710
biological control of mosquitoes: 176
toxicity to and biocentration of
lindane and deltamethrin: 1707

**Gametogenesis**
*Dreissena polymorpha*: 687
*Protopalythoa* sp.: 1474

**Gametophytes**
of *Macrocystis*
sediment toxicity: 817

**Gammaridae**
from Brazil
review: 1795
growth-estimation method: 1840
reproductive bionomics
review: 1479
suprabenthic shelf subcommunity structure
comparison: 301
taxonomy
catalogue of species
from Chile: 634
type II microtrichs
distribution and frequency: 1645
*Gammarus* spp.
loading constraints
body size and mating preference: 11
distribution
limiting factors
lack of oxygen and low pH: 1127
*pulex*
diel activity
comparison of drift catches vs baited traps: 34
'scope for growth'
effect of zinc and low pH: 1226
*tigrinus*
gut extracts
enzymatic release of sugars and amino acids: 110

**Gamogenesis**
*Scapholeberis armata*
induction by photoperiod and temperature: 146

**Gas field produced water**
effects on macrobenthos: 1222

**Gas vacuoles**
bacteria
adaptation for planktonic life: 7

**Gasterosteus**
*aculeatus*
feeding behaviour: 185
planktivory: 188

**Gastropoda**
as intermediate hosts for digenetic trematodes: 3
checklist
from Yemen Arab Republic: 24
*Chilina gibbosa*
population dynamics and production: 198
epiphytic communities
St. Lawrence River (Canada): 1776
*Littorina scutulata* and *L. sitkana*
feeding habits
field observations: 1786
*Littorina*
cladistic phylogeny: 1403
*Nucella lapillus*
feeding, growth and shell morphology: 1297
pulmonates
spatial distribution
ditch: 268
taxonomy and distribution
Namibia and Botswana: 236

**Gaussian model**
diatom-inferred pH: 1694

**Gel state**
$^{13}C$ NMR spectroscopy
agarophytes vs carrageenophytes: 639

**Gel strength**
*Gracilaria domingensis*: 458
effect of calcium: 458
*Kappaphycus alverzii*
effect of nitrogen content: 1466

**Gelidiaceae**
cultivation
physiological basis: 1026
Gelidiales
taxonomy: 1499
*Gelidiella*
taxonomic problems: 1499
*Gelidium*
biological criteria
for commercial exploitation: 856
taxonomy
cystocarp structure: 1498
agar yield
species distribution: 1113
*amansii* and *G. pacificum*
prime Chinese agarophytes: 511
*chilense, G.lingulatum and G. rex*
central Chile
agar properties: 1083
cultivation
in the sea: 1129
field and culture studies: 1465
*latifolium*

field studies and growth experiments: 1427
*madagascariense*
agar chemical composition: 1143
mass culture
physiology: 1026
photosynthesis
physiological responses: 553
*pristoides*
biology and harvesting
South Africa: 49
production ecology: 1501
*rex*
agar: 1082
seaweed resources
Spain: 680
*sesquipedale*
photosynthesis: 1718
spray system for re-attachment: 1483
taxonomic problems: 1499
*vagum*
self-fertilization complication
genetic alleviation: 1124
*versicolor*
development
tissue culture: 1438

**Gemmules**
*Eunapius fragilis*
tolerance to salinity: 512
*Spongilla lacustris*
tolerance to cold: 514
survival
*Anheteromeyenia ryderi*
at low temperature and desiccation: 513

**Gene cloning**
alginate lyase gene
from *Klebsiella pneumoniae*: 579

**Generality**
algal assemblage structure: 551

**Generation time**
*Acanthocyclops robustus*
effect of food and temperature: 368

**Genetic differentiation**
*Littorina* populations
on exposed and protected shores: 205
intra-species: 1809

**Genetic distance**
*Artemia monica* and *A. urmiana*: 8
*Littorina saxatilis*: 1664

**Genetic engineering**
green algae: 868

**Genetic marker**
*Porphyra yezoensis*
degree of self-fertilization: 1569

**Genetic variation**
*Artemia monica* vs *A. urmiana*: 8
*Brachionus plicatilis*: 896, 1554, 1885
*Daphnia magna* clones: 1874
inconsistencies in *Daphnia* bioassay: 90
*Macrotrachela quadricornifera*: 1289
*Rutilus rutilus*: 208

**Genetics**
*Daphnia longispina: 761*
*Daphnia magna*: 396
*Fredericella sultana*: 1863
*Gelidium vagum*: 1123
Rotifera
taxonomic problems: 1471
*Triops newberryi*: 1509
*Tubifex tubifex*: 1302
*Zoanthus sociatus* and *Z. solanderi*: 872

**Genetic diversity**
*Littorina saxatilis* and *L. neglecta*: 840

**Genotype-environment effects**
inconsistencies in *Daphnia* bioassay: 90

**Genotypes**
*Daphnia cucullata*
life-history and aging: 462

**Geochemistry**
Gulf of Gaeta (Tyrrhenian Sea, Italy): 527
Lake 817 (Canada, Newfoundland): 1472
Lake Gallocanta (Aragón, Spain): 330
palya lakes (Australia): 63
saline lakes (Tanzania): 894
Xiangjiang River (China)
in relation to heavy metals: 1565

**Geographic information system**
wetland changes
measurement and evalauation: 1844

**Geographical distribution**
see also Distribution, Biogeography, Zoogeography
marine mites: 114

**Geoplana**
*marginata*
karyology: 35

**Geoplanidae**
*Kontikia mexicana*
copulatory apparatus
developmental sequence: 1267

**Geothermal heating**
lakes and ponds (Antarctica): 440

**Giants**
*Oxytricha bifaria*
reversible carnivory: 1422

**Gigartinacea**
carrageenophytes
infrared analysis: 352
*Gigartina*
for carrageenans (Namibian coast): 1159
form variation and productivity
in relation to wave exposure: 811
*skottsbergii*
carrageenans
seasonal variation: 1348

**Gill**
area vs water loss
supralittoral amphipods: 1067
filaments
*Simulium*
gaseous exchange: 499

**Gizzard shad**
role in structuring plankton communities: 358

**Glacio-isostasy**
origin of Truelove Lowland (Canada): 898

**GLC analysis**
lipids in cysts
*Streptocephalus* spp.: 1207

**Global warming**
trout distribution
New Zealand: 1537

**Glucose mineralization assay**
*in situ* studies
field microorganisms: 1410

**Glycosidase**
origin, distribution and activities
polyhumic lake: 1206

**Glycosylation**
membrane proteins
planarian regeneration: 611

**Glyphosate**
phytotoxicity
bioassay with duckweed: 1004

**Goal function**
exergy
ecological models: 854

**Gomphosphaeria**
toxic bloom: 1582

**Gonad maturation**
annual cycle
*Anthopleura* clones: 567

**Gonad**
turbellarians
ultrastructure: 656

**Gonadosomatic index**
*Synodontis schall*: 695

**Goodnight, C.J.**
in memoriam
synopsis of contributions: 225

**Gracilariaceae**
diagnoses and key to genera: 557
taxonomy
recent approaches: 167
*Gracilaria*
*conferta*
growth, photosynthesis and agar: 989
*domingensis*
yield and gel strength: 458
fatty acids: 64
for agar
Namibian coast: 1159
model of seaweed growth: 563
*verrucosa*
cell-wall composition: 128
cell-wall ultrastructrure: 1680
growth, photosynthesis and agar: 989
Strain G-16 cultivation: 169
viability and dissemination of spermatia: 419
*sordida*
seasonal growth, density: 1339
reproductive phenology, agar quality: 1339
*tikvahiae*
nitrogen nutrition: 709
*truncata*
agar composition: 575

**Grain size correction**
procedures
heavy metals and organic micropollutants: 900

**Grandidierella**
tube-building behaviour: 111

**Grannules**
of copper
*Plectrocnemia conspersa* larvae: 381

**Grass carp**
faeces
utilization by *Asellus aquaticus*: 1333

**Grateloupia**
*doryphora*
tissue culture: 1438

**Gravel bar**
colonisation by Oligochaeta: 166

**Grazing**
algal response
lakes of contrasting trophic status: 484
biomanipulated vs unmanipulated lakes: 274,

1014
*Austropotamobius*: 1088
Crustacea
effect on algal abundance and water transparency: 1744
*Cyclops kolensis* and *C. vicinus*: 14
*Daphnia*: 813
freshwater snails: 423
grazers vs metaphytic algae: 554
littorinid snails
effect on algal populations: 1251
oligotrophication: 1493
on bacteria: 162
on periphyton: 282, 874
on seaweeds by *Trichopshaerium*: 1352
on seston by zooplankton: 599
phytoplankton control: 624
rates
*Kellicottia*: 954
*Keratella cochlearis: 954*
*Keratella quadrata*: 954
planktonic Cladocera: 952
sea urchins: 1520
snails
effect on periphyton community structure: 1065
zooplankton: 392, 675, 1668

**Great Barrier Reef**
predation on
*Diploastrea heliopora: 265*
*Leptoria phrygia*: 265

**Great Lake system**
St. Marys River (Canada/USA)
biota
habitat evaluation: 877
*Corbicula fluminea*
growth and overwintering survival: 559
Detroit River (USA, Michigan)
contaminants and human activities
effect on biota: 1054
heavy metals in aquatic macrophytes: 1055
Trenton Channel
sediment contamination
response of bacteria and phytoplankton: 1157
tumors in fish: 1019
Lake St. Clair (Canada/USA)
biota
habitat evaluation: 977
phosphorus cycling by mussels: 1220
plankton community structure: 1634
plankton ecology: 1194

St. Clair River (Canada, Ontario)
benthic macroinvertebrates
distribution: 660
distribution and abundance of young fish: 985
larval *Procladius spp.*
mouthpart deformities: 413
limnological aspects: 661
toxicity assessment
by algal fluorescence technique: 1198

St. Marys River (Canada/USA)
benthic invertebrate communities
effects of pollution: 248
polycyclic aromatic hydrocarbons
surficial sediments and caged mussels: 878

St. Marys River wetlands (USA, Michigan)
historical changes: 1844
Upper Connecting Channels (USA/Canada)
*Hexagenia* nymphs
production: 469
distribution: 1524
primary productivity
effect of suspended sediments: 1197
sediment heavy metal contamination: 1239

**Great rift lakes of Africa**
fauna
adaptive radiation and speciation: 565

**Green hydra**
supply of amino acids
to symbiotic *Chlorella*: 1100

**Greenhouse impact**
on humic and coloured lakes
Fennoscandia: 546

**Ground water**
chemistry
bog drainage impact: 1012
in volcanic landscape
geochemistry: 1365
nitrate depletion: 339
developmental toxicants
detection by FETAX: 101
*Diacyclops languidoides*
*Acanthocyclops montana n.sp.*
Montana (USA): 1404
modelling
Loosdrecht lakes (The Netherlands): 487
*Pseudoniphargus candelariae* n. sp.: 1490
Tenerife (Canary Islands)
recharge and discharge
Hidden Valley Wetland (Canada, Ontario): 601

**Growth**
algae: 1258, 1730
*Anguilla anguilla*: 1052
Anostraca and medium-sized invertebrates
measurement by video technique: 402
*Artemia*
effect of salinity: 115
*Asellus aquaticus*
fed grass carp faeces: 1333
bacteria: 1144, 1730
*Brachionus angularis*
effect of temperature: 1807
*Brachionus plicatilis*
nutritional effect of *Chlorella*: 759
brown algae: 909
*Chilina gibbosa*: 198

*Chironomus riparius*: 1709
*Clavopsella michaeli*: 1347
cladoceran species
effect of long-term copper exposure
comparison: 910
*Corbicula fluminea:* 126, 559
*Coregonus albula: 741*
*Cottus cognatus*
in relation to trout predation: 1110
curves
of algae: 186
*Cyprinus carpio*: 518, 1579
*Daphnia galeata*
indirect effects of planktivorous fish: 1020
efficiency
*Artemia franciscana*: 9
phytoplankton
effect of light attenuation and insolation: 632
*Streptocephalus macrourus*: 1150
*Egeria radiata*: 1174
*Esox lucius*
*Stizostedion lucioperca* and *Silurus glanis*
modelling: 1376
experiments
*Gelidium latifolium*: 1427
fish populations
indicator of environmental health: 1204
*Galaxias occidentalis*: 1316
*Gelidium*: 1129
*Gracilaria*: 989, 1339
juvenile sporophytes
*Lessonia*: 464
*Kappaphycus alvarezii*
effect of ammonium: 1466
kinetics
algae: 1433
*Laminaria*
nutrient enrichment: 1876
larval fish: 985
*Leuciscus svallize*: 463
limitation
diatoms and *Oscillatoria* spp.: 1010
*Lota lota*: 269
*Macrocystis*: 1647
mangrove roots
effects of epibionts: 481
*Megacyclops viridis*
*Macrocyclops albidus*
*Acanthocyclops vernalis*: 5
method
gammaridean Amphipoda: 1840
*Mirogrex terraesanctae*: 961
*Moina macrocopa*
effect of algal food type: 1076
*Mytilus edulis*
use in assessment of environmental pollution: 1836
mussels
effect of chlorophyll*a* and primary production: 1597
Nano- and picoplankton: 1564
*Nucella lapillus*: 1297
*Oreochromis niloticus*: 609
patterns
epiphytic hydroids: 792
*Penaeus latisulcatus* and *P. indicus*: 1660
*Perca fluviatilis*: 1000
*Pharyngochromis darlingi*
*Pseudocrenilabrus philander*: 795
*Platichthys flesus*: 1812
*Prochlorothrix hollandica*: 633
Protozoa: 1730
pulsations
thecate hydroid evolution: 129
rate
*Apatania fimbriata*: 76
bacteria: 162, 1487
*Chondrus crispus:* 1437
freshwater algae: 384
*Lithothamnion corallioides:* 1358
phytoplankton: 1153
*Streptoceplalus macrourus*: 1150
rings
*Antipathes fiordensis*: 626
*Rutilus rutilus*: 1324
seaweeds
effect of light: 1114
*Sertularia cupressina*: 1527
*Sertularia perpusilla*: 791
submerged macrophytes: 443
*Thymallus arcticus*: 270
*Triops granarius*: 1542
whitefish
in acidified lakes: 1387
young-of-year *Lota lota*: 1473
young-of-year lake trout: 1109

**Guaranidrilus**
phylogenetics: 324

**Guild structure**
Hydropsychidae
downstream changes: 263

**Gulls**
contributions of P and N
Cape Cod kettle pond: 1357

**Guluronate lyase**
assay for mannuronan 5'-epimerase: 1381
encoding by *Klebsiella pneumoniae* gene: 579

**Gut content**
*Cymatia bonsdorfi*: 1405
*Diporeia* sp.: 1372
*Isoperla grammatica* and *I. difformis*: 1045

**Gymnogongrus**
taxonomy
life history implications: 1034

**Gyratrix**
*hermaphroditus*-complex
chromosomal evolution and speciation: 1368

**Habitat**
characterization
for larval *Caenis* and *Trichorythodes*: 346
complexity
structure of epiphytal amphipod communites: 1470
degradation
tropical Asian tropical rivers
human impact: 444
evaluation
Lake St. Clair (Canada/USA): 977
St. Marys River (Canada/USA): 877
heterogeneity
Rotifera: 1566
homogeneity
effect on niche-overlap
herbivorous cladocerans: 750
hospitality
colonisation strategies
*Spongilla lacustris*: 1050
islands
peat pools
midge larvae: 812
mangroves
for fish and prawns: 1508
of slimy sculpin
shifts in abundance and growth: 1110
partitioning
among juvenile fish: 810
preference
*Chironex fleckeri*: 729
interaction between stone loach and bullhead: 1823
restoration and creation
British North Sea estuaries: 387
selection
brachionid rotifers: 1313
freshwater Rhizopoda: 155
ostracods: 1098
young-of-year *Salvelinus namaycush*: 1109
size
effect on fish distribution and community structure: 1016
use
bluegills: 84
newly-emerged Atlantic salmon: 685
*Orconectes neglectus*: 640
use patterns
modifications
scarcity of indigenous fish species: 238
young-of-the-year *Lota lota*: 1473

**Habituation**
induction
in *Actinia equina*: 212

**Haemoglobin**
content
*Daphnia longispina*
adaptation to low oxygen: 1489

**Halacaroidea**
marine mites
geographical amd ecological survey: 114

**Halammohydra**
*intermedia*
nematocysts
differentiation and ultrastructure: 316

**Halicryptus**
*spinulosus*
body wall ultrastructure
changes induced by hydrogen sulphide: 823
histology
in relation to hydrogen sulphide resistance: 1265

**Halicyclops**
*hurlberti* n.sp.: 1443

**Halimeda**
productivity and nutrient relationships: 1001

**Haliplanella**
*lineata*
embryonic and larval development: 571

**Halite**
coprecipitation with heavy metals: 1653

**Halocordyle**
*disticha*
intraspecific variation: 1575

**Halophiles**
long-term community changes
effect of salinity decrease: 1649

**Handling time**
of prey
by cyclopoid female predator: 1445

**Haplochromines**
predation by Nile perch
Mwanza Gulf, Lake Victoria: 1155
Lakes Victoria and Kyoga: 937

**Haptobenthos**
community structure
abundance and diversity
impact of DDT contamination: 1815

**Harpacticoida**
*Antarcticobradya tenuis*
Weddell Sea, Antarctica: 1529
*Bathycamptus eckmani* n.gen. n.sp.: 798
*Boreolimella* n.gen.: 798
*Bryocamptus pilosus* n.sp.
USA: 540
*Carolinicola* n.gen.: 798
*Hemimesochra*: 798
intrashoot distribution

on *Zostera marina*: 1814
meiofauna
oil-pollution effects
on reproduction: 181
*Mesopsyllus*: 798
*Maraenobiotus canadensis* n. sp.: 541
*Neomaraenobiotus laurentiacus* n. gen.n. sp.: 541
*Perucamptus* n.gen.: 798
*Pusillargillus* n.gen.: 798
*Scutellidium hippolytes*
naupliar development: 375
*Thalestris longimana*
first nauplius and copepodite stages: 374
Tisbidimorpha
copepodid development and phylogeny: 373

**Harvesting**
aquatic macrophytes
for biomanipulation: 581
*Gracilaria*: 1459
*Lessonia*
ecological effects: 1763
macroalgae: 1521
macrophytes
ecological effects: 1892
marine plants
ecological impact: 1561
mass culture
*Dunaliella*
oxygenated carotenoids: 1181
methods
Canadian Irish moss: 1366
*Gelidium* spp.: 856
seaweeds: 108, 552, 680
strategies
*Iridaea splendens*: 52
*Streptoceplalus macrourus*: 1150

**Hataia**
*parva*
morphology, ecology and life cycle: 1872

**Hatching**
*Brachionus plicatilis* resting eggs
effect of incubation and preservation: 691
British salmonid eggs
effect of mechanical shock: 360
characteristics of cysts
Greek *Artemia* strains: 1

**Hazard assessment**
importance of functional responses of communities: 996
of organic pollutants: 582
of sediment-bound chemicals
Hamburg harbour (Germany): 18
single species toxicity testing: 255
using microorganisms: 253

**Headshield**
*Monospilus dispar*
headpore: 1077
phylogeny
Chydoridae: 1077

**Health**
ecosystem
assessment: 1195

**Heat shock**
response
in *Hydra vulgaris*: 197

**Heated effluents**
abundance changes
in *Laminaria* and *Pterygophora*: 1247

**Heavy metal**
accumulation
*Anodonta cygnea*: 1482
concentration
*Catostomus commersoni*: 1880
coprecipitation with halite: 1653
*Chironomus* larvae: 824
Detroit River (USA, Michigan): 1054
flood deposits: 979
sediments: 124, 1576
contamination
English Midlands reservoirs (U.K.): 550
bryozoan colonies: 744
*Ulva lactuca*: 760
distribution
tropical coastal lagoons: 945
in sediments
Lake Varese (N. Italy): 1367
in water, suspended materials and sediments
Langat River (Malaysia): 1505
*Zostera marina*: 1015
effect on Asellus aquaticus: 1138
extractability
effect of ammonium acetate and distilled water: 1681
geochemical cycling
marine coastal area (Ansedonia Bay): 311
in relation to mouthpart deformities
*Procladius paludicola*: 1337
in sediments
grain size correction procedures: 900
Llangorse Lake (U.K., Wales): 851
in suspended particulate matter
Linggi River drainage basin (Malaysia): 1506
Yarra River (Australia): 1577
mobility and bioavailability: 260
monitoring by *Enteromorpha*: 1514
pollution
Humber estuary (England): 112
river sediments: 1785
release from polluted sediments
Lake Ketelmeer (The Netherlands): 793
sediment toxicity: 385
sorption by sediments: 1881
speciation
effect on bioavailability to tubificids: 683

urban river sediments: 1818
water and sediment: 1565
sublethal effects of copper
on diel activity of *Arius felis*: 1642
toxicity assessment
root and shoot elongation: 300

**Hedophyllum**
*sessile*
behaviour in variable-speed flow tank
measurement of drag force: 68

**Heleoplankton**
from Reggio Emilia ricefield (Italy)
cladoceran succession: 524

**Helicopter**
-collected vs boat-collected water samples
chemical analysis
comparison: 667

**Helisoma**
food selection: 1029

**Hemiptera**
Corixidae distribution
Carrib catchment (Ireland): 1729
*Micronecta scutellaris*
population ecology
Lake Naivasha (Kenya): 315
*Plea frontalis*
larval development and adult redescription
Sri Lanka: 135

**Hepatotoxicity**
*Nodularia spumigena*
water bloom
southern Baltic: 1581

**Herbicide**
atrazine
effects on planktonic systems: 959
glyphosate
phytotoxicity
bioassay with duckweed: 1004
residues
biological activity: 1382
sulfonylurea herbicides
phytotoxicity
pot bioassay with turnip seedlings: 1382
tebuthiuron
effect on aquatic productivity: 1693

**Herbivores**
among opportunist rotifers: 1354
feeding response
to fresh and decomposing macrophytes: 1666
impact on community structure of *Fucus serratus*: 1845
impact on phytoplankton community structure: 1668

**Heritability**
phototactic behaviour
*Daphnia magna* clones: 396

**Hermit crabs**
*Dardanus* and *Pagurus*
recognition of symbiotic sea anemones and predatory octopus: 232

**Herpes**
virus
effect of sulphated polysaccharides: 1231

**Herpobenthos**
community structure, abundance and diversity
impact of DDT contamination: 1815

**Heterocapsa sp.**
cell cycle
in relation to 12:12 light:dark cycle: 138
photosynthetic pigment composition
in relation to 12:12 light:dark cycles: 970

**Heterocypris**
*barbara*
salinity tolerance: 1495

**Heterokaryon**
*Porphyra*: 570

**Heterologous expression**
in *Escherichia coli*
of *Klebsiella pneumoniae* gene: 579

**Heteronemertea**
*Amniclineus zhujiangensis* n. gen.n. sp.
China: 612

**Heteroptera**
*Diplonychus rusticum*
feeding: 445
*Cymatia bonsdorfi*
natural diet: 1405

**Heterotrophic activity**
effect of contaminated sediments
Trenton Channel: 1157

**Heterotrophy**
bacteria
Roskilde Fjord (Denmark) sediment: 536
bacterioplankton
Pareloup reservoir (France): 972
*Chlorella*
fatty acid production: 1684
humic lake in summer: 1488
nanoflagellates
predation by nano- and micro-ciliates: 1821
saline meromictic lake: 696

**Heterozygosity**
life-history traits

*Daphnia magna* clones: 1874
relationship with growth
*Littorina*: 1809

**Hexagenia**
*limbata*
secondary production
relationship with chlorophyll content: 1822
nymphs
distribution
effect of oiled sediments: 1524
production
effect of contaminated sediments: 469

**Hexarthra**
*bulgarica*
diurnal vertical movement: 275
development: 748

**Hexavalent chromium**
toxicity assessment
*Daphnia obtusa* life-tables: 332

**High altitude**
Emerald Lake (USA, California)
phytoplankton photosynthesis: 1574

**High mountain**
El Sol (Mexico)
limnology: 131
lakes and ponds (Spain, Sierra Nevada)
rotifer community composition: 1161

**High pH**
control of filter-feeding zooplankton
hypertrophic lake: 836

**Hippopodius**
*hippopus*
predation on ostracods: 1369

**Hirudinea**
assignment of Branchiobdellida
review: 773
*Batracobdelloides tricarinata*
redescription: 1276
*Dina eturpshem* n.sp.: 1585
*Dina krilata* n.sp.: 1585
*Dina svilesta* n.sp.: 1585
*Nephelopsis obscura*
feeding and vertical distribution
effect of different oxygen regimes: 388

**Histochemistry**
body wall
oligochaetes: 470

**Histology**
*Halicryptus spinulosus*
in relation to hydrogen sulphide resistance: 1265

**Histophysiology**
of digestion
*Chaetogaster limnaei limnaei*: 602

**Historical records**
eutrophication
coastal lakes
Southwest England: 1259

**History**
international conferences
coelenterate biology: 1024
Turbellaria
in Japan: 879
Water Quality Research Loosdrecht Lakes (The Netherlands): 1755

**Holdfasts**
*Ecklonia stolonifera*
size-age relation: 1252

**Holecene**
environmental history
Kirisjes Pond and Pup Lagoon (Antarctica): 618
southern Sweden: 580
diatoms
Baltic sediments: 1706
history
Shropshire-Cheshire meres (U.K.): 506
paleoclimatology
south-central Sahara: 119
reconstruction of vegetation
palynological study of paleolakes
central Sahara: 1534

**Holothuroidea**
symbiosis with dalyellioid platyhelminths: 846

**Horizontal distribution**
*Acanthocyclops robustus*
predator-prey overlap: 1446
*Hexarthra bulgarica*: 275
*Keratella cochlearis*: 1512
*Polyarthra vulgaris*: 1512
zooplankton
population density estimates: 1770

**Horizontal movement**
*Eurytemora affinis*
in tide pools: 280

**Hormesis**
*Brachionus calyciflorus*
pH effect: 1148
zooplankton ingestion bioassay: 1119

**Host**
prosobranch molluscs
water mite infection: 507
specificity
*Alboglossiphonia polypompholyx*: 478

**HPLC**
amino acid content
determination: 1100
*Oscillatoria* toxin
analysis: 490
concentration of benzo(a)pyrene equivalents
brown bullhead bile: 845
pigment composition analysis
*Heterocapsa* sp. and *Olisthodiscus luteus*: 970

**hsp60**
of *Hydra vulgaris*
relationship with hsp70: 197

**hsp70**
relationship with hsp60
of *Hydra vulgaris*: 197

**Human**
hair
analysis for mercury: 1218
impact
chalk streams: 147
freshwaters
review: 1827
lakes and rivers
review: 1177
prehistoric settlement
impact on Cladocera in lake sediments: 1670

**Humic lakes**
bacterial production
role of dissolved organic carbon: 1665
Lake Kjelsåsputten (S.E. Norway)
zooplankton
bacteria as P source: 751
lakes in Fennoscandia (Sweden)
greenhouse impact: 546
Mekkojärvi Lake (Finland)
*Daphnia longispina*
vertical migration: 1489
phosphorus transformations
in epilimnia: 850
planktonic food chains: 1488
Triangle Lake (USA)
zooplankton dynamics: 734

**Humic ponds**
Cabin Ponds A, B and C (Norway)
coexistence of cyclopoid spp.: 479

**Humic substances**
biogeochemistry
impact of environmental changes: 394
characteristics of organic matter
Swedish forest lakes and streams: 1128
distribution
*Callichirus* burrows: 1765
effect of planktonic food chains: 849
effect on litter decomposition: 1371
polyhumic lake: 1730
relationship with phenolic acids: 967

**Hurricanes**
impact on coral reefs: 1864

**Hyalella**
*azteca*
as food for *Catostomus commersoni*: 1006
bioassay organism
sediment chronic toxicity: 196

**Hybridization**
*Bosmina*: 994
*Branchinecta belki* and *B. packardi*: 1032
*Gelidium vagum*: 1124
*Gracilaria verrucosa*: 167
*Littorina saxatilis*-complex: 1810

**Hybrids**
*Oreochromis*: 94
*Gelidium vagum*: 1123

**Hydra**
body size and bud size
physiological and evolutionary aspects: 1590
cytoskeleton of nematocytes
differentiation: 1519
*magnipapillata*
monoamine concentration: 1677
photoresponse: 1674
*vulguris*
effect of PAF on neuron number: 1350
heat shock response: 197
tentacular nematocytes
spatial distribution of cations: 606

**Hydranths**
thecate hydroids
regression and replacement: 365

**Hydraulics**
in relation to sediment transport: 1356
of mountain stream
habitat utilization and suitability
crayfish: 640

**Hydrilla**
*verticillata*
growth and propagule production: 1631

**Hydrobiologia [journal]**
growth in last decennium
present state of affairs
editorial: 450

**Hydrobiology**
Lake Manzala (Egypt): 891

**Hydrocarbon**
content
in small gradient estuary
effects on macrobenthos: 1222
subalpine lakes (Italy): 582

**Hydrochemistry**
El Sol (Mexico, Nevado de Toluca Volcano): 131

**Hydroclimatic conditions**
in relation to density gradient: 672

**Hydrocorals**
*Millepora dichotoma*
symbiotic relationship
with *Savignium milleporum*: 337

**Hydrodynamics**
by chemical and isotopic study
Ébrié lagoon (Ivory Coast): 673
of *Gelidium*: 1129
of mangrove swamps (Australia): 1861
relationship with suspended solids
Yoshii River estuary (Japan): 1219
water velocity measurement
use of head tube: 310

**Hydrogen sulphide**
effect on body wall
*Halicryptus spinulosus*: 823
resistance of *Halicryptus spinulosus*: 1265

**Hydrogen**
content
*Brachionus plicatilis*: 1882

**Hydrography**
coastal shelf
oceanic areas off Brazil: 217
North Icelandic coastal area
in relation benthic marine algae: 1201
Vejle Fjord (Denmark): 305

**Hydroid**
*Halocordyle disticha*
nematocysts: 1283

**Hydroida**
relationship with invertebrate drift
Mississippi River (USA): 908

**Hydrologic flow paths**
interactions with water chemistry
riparian zone: 752

**Hydrology**
chalk streams: 147
Encañizada and Tancada lagoons (Spain): 331
fen ecosystems
Vecht River plain (The Netherlands): 106
Hidden Valley Wetland (Canada, Ontario): 601
in relation to water quality
lakes in SW Friesland (The Netherlands): 1747
Lake Gallocanta (Aragón, NE Spain): 330
Lake Notasha (USA): 473
Loosdrecht lakes (The Netherlands): 487
Nigerian estuaries: 39
nutrient-rich first order stream: 1108

**Hydromedusae**
distribution
Mediterranean Sea: 642
North Atlantic: 968
distribution patterns: 1632
*Euphysa japonica*
bioluminescence: 1025
intraguild predation: 1370

**Hydropsychidae**
guild structure: 263

**Hydrothecae**
thecate hydroids
origin and development: 365

**Hydroxyapatite**
phosphorus solubility
in porewater: 1641

**4-hydroxybenzoic acid**
effect on *Chlorella* growth: 967

**Hydrozoa**
abundance and distribution
Twin Cays mangrove (Belize): 256
*Eutima japonica*
*E. inquilina japonica*
and *Eucheilota intermedia*
crossing experiments: 934
evolution
5S ribosomal RNA: 775
*Fukaurahydra anthoformis* and *Hataia parva*
morphology, ecology and life cycles: 1872
*Halammohydra intermedia*
nematocysts
differentiation and ultrastructure: 316
hydranths
regression and replacement: 365
jelly fish
extracellular matrix: 1526
*Laodicea indica*
life cycle: 204
*Millepora complanata*
ampullae and medusae
ultrastructure: 991
peptides
neurotransmission: 1630
planulae
interstitial cells
differentiation: 1074
*Samuraia tabularasa* n.gen.n.sp.: 1051
seagrass epiphytes
growth pattern: 792
*Sertularia perpusilla*
growth and degeneration: 791
*Sertularia cupressina*
settlement and growth:1527
*Stylactaria conchicola* comb. nov.: 1221
redescription: 1221

Thecata
morphogenesis
evolutionary implications: 129

**Hypersalinity**
hypersaline lakes (Australia)
trace metals in surficial sediments: 1017
Lake Fletcher (Antarctica)
zooplankton composition: 494
Lake Tebenquiche (Chile): 1891

**Hypertrophy**
Hartbeespoort Dam (South Africa)
extracellular dissolved carbon
of phytoplankton: 1439
*Microcystis* hyper scums: 1887
Hjarbaek Fjord (Denmark)
effects of whitefish stocking on ecosystem: 1388
phytoplankton community: 1270
Lake Sobygaard (Denmark): 836, 1328, 1615, 1616, 1617
Lake Vallentunasjön (Sweden)
benthic biomass of *Microcycstis*
phosphorus release: 239
Lake Zwemlust (The Netherlands)
restoration by biomanipulation: 1744
Onondaga Lake (USA, New York)
zooplankton
impacts on chlorophyll and transparency: 74

**Hypneaceae**
carrageenan
infrared analysis: 352

**Hypogean waters**
*Alona hercegovinae* n. sp.
caves of Hercegovina (Yugoslavia): 215
*Alona sketi* n.sp.
Yugoslavia: 216
Cladocera
Yugoslavia: 229
vertical distribution of fauna
effect of spates: 435

**Hypolimnion**
protozooplankton distribution
Esthwaite (U.K., Cumbria): 974

**Hypophthalmichthys**
*molitrix*
control of blue-greens
Netofa reservoirs (Israel): 988
grazing on phytoplankton
East Lake (China, Wuchang): 1151

**Hyporheos**
composition and structure
effect of spate
Rhône River (France): 1066
effect of convective flow patterns: 1832
northern California coast stream: 1111
vertical distribution
effect of spates: 435

**Hypothesis**
body size efficiency
critical review: 1327

**Hypotrichida**
*Oxytricha bifaria*
reversible carnivory: 1422

**Hypoxia**
behavioural response of *Oncorhynchus*: 172

**Ice**
access pipes
water sampling through ice: 899
spectral transmittance
range for different ice types: 189

**Ichthyofauna**
see Fish

**Identification**
jellyfish
from nematocysts in victim's skin: 515

**Ilyocryptus**
*elegans* n. sp.
Argentina: 1292
from Europe
review: 1652
*paranaensis* n.sp.
Argentina: 1291
*samsuni* n. sp.: 682
Turkey: 682

**Image analysis**
sediment toxicity
to *Macrocystis* gametophytes: 817

**Immigration**
microbial colonisation
of temporaty aquatic systems: 1105

**Immobilization**
of dissolved free amino acids: 531

**Immobilized cells**
bioflavor production
*Ulva* culture systems: 568

**Immunochemistry**
*Microstomum lineare*: 1296

**Immunohistochemistry**
*Hydra*: 1630

**Immunological analysis**
gut contents
*Cymatia bonsdorfi*: 1405

**Immunology**
*Hydra vulgaris*
relationship of hsp60 with hsp70: 197

**Impact assessment**
role and application of bioassay techniques
review: 1689

**Implanted substrates**
colonisation
by Ephemertoptera: 617

**In memoriam**
Edward Smith Deevey (1914-1988)
biographical sketch and bibliography: 1601
Peter Kilham
list of publications: 55

**In situ**
benthic chambers
determination of heavy metal fluxes: 311
benthic metabolic exchanges rates
effect of oyster biomass: 201
bioassay
behaviour of Pacific salmon: 172
microgrowth bands in *Cerastoderma edule*: 652
bioassessment
dredging and disposal activities: 1196
effects of tributyltin on *Fucus* communities: 996
enclosures
bioassay
phosphate demand in phytoplankton: 1335
filtration rate
*Dreissena polymorpha*: 1401
grazing
*Cyclops kolensis* and *C. vicinus*: 14
incubation
microbial utilization of coral mucus: 1736
metabolism and primary production
benthos: 319
nitrate disappearance in water-sediment systems: 477
nutrient enrichment experiments
with periphyton: 249
particle flux
measurement by luminophores: 605
primary production: 139
sampling performance
Ekman grabs: 180
sedimented mussel deposits
biochemical and microbial measurements: 657

**In vitro**
leaching
*Berzelia lanuginosa* and *Elegia thyrsifera*: 1390
nitrate disappearance in water-sediment systems: 477

**In vivo**
chlorophyll fluorescence intensity
vertical profiles
Red Sea: 715
absorption spectra
*Chlorella*: 932

**In-place pollutants**
contaminants in sediments: 1881
relationship with neoplasia in fish: 1019

**Incubation**
interval
influence on water column respiration
tropical fish ponds: 1691
periods
congeneric stonefly species
temperature-dependent variation: 1068

**Incubator**
technique
primary production estimation: 1434

**Index of Biotic Integrity**
modification
based on fish assemblages: 1262

**Index of patchiness**
zooplankton horizontal distribution: 1770

**Indicator organisms**
*Branchinecta longiantenna*: 1154
*Capitella capitata*: 112
diatoms: 1694
*Halocordyle disticha*: 1575
meiobenthos: 1503
mussels: 878
Oligochaeta: 1768
*Ulva lactuca*: 760

**Indirect effects**
of biomanipulation
overview: 957
*Bacillus*-induced mortality
in mosquito larvae: 99

**Individual growth**
variability
rotifers: 272

**Individualistic hypothesis**
species succession: 1106

**Indoplanorbis**
*exustus*
low temperature effects: 1303

**Industrial**
effluents
chronic toxicity
*Cyprinodon variegatus*: 796
*Tisbe battagliai*: 796
emissions
monitoring
sediment analysis: 1785
pollution
Coringa mangrove (India): 81
Lake Orta (Italy): 281
revolution
heavy metal pollution
Llangorse Lake (U.K.): 851

**Infauna**
of estuaries: 1122

**Infection**
freshwater fish
by fungi: 1266
prosobranch mollusc
by parasitic mites: 507

**Inferred pH**
diatom indication: 1539
diatoms and chrysophytes: 426

**Inflows**
effect on biomass change
*Mirogrex terraesanctae*
Lake Kinneret (Israel): 961

**Ingestion**
effeciency
*Daphnia galeata*: 1735
of water
by black fly vs mosquito larvae: 1073
rate
*Acanthocyclops robustus*: 1035
*Acanthodiaptomus denticornis*: 953
*Brachionus angularis*
effect of temperature: 1807
*Brachionus plicatilis*: 918
*Mesocyclops leuckarti*: 1035
zooplankton bioassay: 1119

**Ingolfiella**
*canariensis* n. sp.
Tenerife and Hierro (Spain): 1787

**Inland waters**
trophic relationships
symposium
concluding remarks: 627

**Innervation**
skeletal muscles
Rotifera: 321

**Inorganic phosphates**
fractionation: 502

**Insect**
densities
in moss-covered vs moss-free channels: 242
colonisation of headwater stream
effect of insecticidal application: 1798

**Insecticide**
carbaryl
effect on zooplankton communities
influence of *Chaoborus* density: 707
treatment
impact on drift and benthos: 1799
effect on recolonisation of streams by insects: 1798

**Instars**
cyclopoid copepods
development times
effect of temperature: 1036

**Instrumentation**
flow cytometry
phytoplankton research

cell identification and counting: 93

**Integrated monitoring**
atmospheric pollution
effects on ecosystems: 1576

**Inter-clutch duration**
*Eucyclops serrulatus* and *Cyclops strenuus*
effect of temperature: 1037

**Interaction**
stone loach and bullhead
effects on prey and habitat selection: 1823

**Interactive colonisation**
microbial community
temporary aquatic systems: 1105

**Intercalibration**
algal microplate toxicity assay
with *Selenastrum capricornutum*: 1698
bioassay method
with *Colpidium campylum*: 425

**Interchange**
dissolved phosphate
between water and sediment: 318

**Interference**
from other taxa
odonate foraging modes: 844
*Scapholeberis kingi* with *Synchaeta oblonga*: 616

**Interglacial lakes**
sedimentary diatom composition
Poland: 1057

**Intermediate Disturbance Hypothesis**
concept
strengths and weaknesses: 1414
general comments: 1614
phytoplankton

**Intermediate disturbance**
effect on phytoplankton
diversity and composition: 303, 774
diversity and succession: 483, 1185
species richness: 1312
succession and diversity: 1413

**Intermittent stream**
seasonal limnology: 291
eucalypt leaf decomposition rate: 206
benthic organic matter
and macroinvertebrates: 207

**Internal loading**
nitrogen
Pyramid Lake (USA): 978
phosphorus
effect of fish removal
Lake Vaeng (Denmark, Jutland): 1618
fixation with iron (III) chloride
lake restoration: 182
impact of bleak and roach: 781
Lake Klein Vogelenzang (The Netherlands): 1741
Lake Sobygaard (Denmark, Jutland): 1615
Lake Vallentunasjön (Sweden): 239
role of resuspended sediment: 1619

**International conferences**
coelenterate biology
history: 1024

**Interpolation**
of spatial variable
sediment map: 537

**Interspecific**
aggression
sea anemones: 723
competition
*Callionymus* spp.: 562
copulation
*Littorina littorea* and *L. saxatilis*: 1513
hybrids
*Littorina saxatilis* species-complex: 1810
interactions
interstitial Ciliata: 1496
variation
in pigmentation
implications for production estimates: 1434
in temperature dependence
egg development: 1068

**Interstitial cells**
differentiation
hydrozoan planulae: 1074

**Interstitial community**
Ciliata: 1496
composition and structure
effect of spate: 1066
crustaceans
in karst outflow: 1080

**Interstitial water**
chemistry: 164
collection
new sampler: 1834

**Intertidal**
anemone
reproduction and feeding ethology: 320
ecology
littorinid grazing: 1251
fishes
seasonality: 1168
rocky shore macroalgal assemblages
structure: 290
influence of biological and physical factors: 1733
sediments

oxygen profiles: 233
vegetation
patterns of organization: 1500
zonation
algal assemblages
geographic generality: 551
prosobranchs: 1117

**Intestine**
phagocytic cells
planarian
SEM study: 807

**Intracellular free amino acids**
*Thalassiosira weissflogii*
diel variation: 1075

**Intraspecific**
competition
*Rutilus rutilus*: 1325
copulation
*Littorina littorea*: 1513
*Littorina saxatilis*: 1513
variation
embryonic development duration
freshwater copepods: 465
life-history traits
*Macrotrachela quadricornifera*: 1420
*Halocordyle disticha*: 1575
shell morphology
*Littorina saxatilis*: 646
*Littorina arcana*: 646

**Introductions**
marine invertebrates and fishes
Aral Sea: 27

**Introgressive hybridization**
*Bosmina* (*Eubosmina*)
Lake Constance (Germany): 764

**Inventory**
heavy metals and organic micropollutants
Linggi River drainage basin (Malaysia): 1506

**Invertebrates**
abundance
Lake St. Clair (Canada/USA): 977
St. Marys River (Canada/USA): 877
acute cadmium toxicity: 604
benthic
respiration: 698
riffles vs pools: 234
colonisation
on *Tessaria* litter: 1228
on maple leaf litter: 168
community
effect of abiotic factors: 1457
drift
composition and diel periodicity: 141
impact of insecticide treatment: 1799
relationship with *Gammarus* foraging: 34
temporal variation: 908
for acute bioassays
industrial and municipal effluents: 533
isolation from detritus
in benthic samples: 363
predation effects
*Neomysis* vs *Chaoborus*: 705
on zooplankton community: 951
on and by pelagic Turbellaria: 1444
on *Daphnia*: 1343
production
relationship autochthonous carbon: 1456
spatial and temporal occurrence: 1867
zooplankton predators
composition and diversity: 520

**Ion**
composition
effect on distribution of ostracods
saline lakes (Spain): 98
loss
effect on pH depressions in
*Leptophlebia cupida*: 1462
*Stenonema femoratum*: 1462

**Ionic**
alkyllead
occurrence and fate
in water and sediments: 286
regulation
in *Libellula*: 1447
salinity
lakes and impoundments: 848

**Ionophores**
effect on cyst hatching
*Streptocephalus dichotomus*: 451
*Thamnocephalus platyurus: 451*

**Iota-carrageenans**
Rhodophyceae spp.
Normandy coast (France): 353

**IR spectroscopy**
carrageenan analysis: 353
carrageenophytes: 352
phycocolloid analysis: 417

**Ireland**
littoral freshwater Chydoridae
ecology and distribution: 449

**Iridaea**
population
simulation model: 52

**Irish moss**
*Chondrus crispus*
with *Phymatolithon*: 1306
commercial harvesting: 680
dry weight and carrageenan composition: 1437
primary production: 1366

**Iron**
accumulation
*Nereis diversicolor*: 297
*Scrobicularia plana*: 297
biogeochemistry
Lake Toolik (Alaska): 350
concentration and distribution
in *Catostomus commersoni*: 1880
deposits
on *Halicryptus spinulosus* cuticle
resistance to hydrogen sulphide: 1265
distribution
in relation to phototrophic sulphur bacteria
Lake Banyoles (NE Spain): 592
hydroxide
adsorption of phosphorus
lake restoration measure: 883
phosphate adsorption in sediments: 1349
sediment chemistry: 1662
sulphides
phosphorus solubility in porewater: 1641
turnover
Öre estuary (northern Sweden): 547

**Iron:phosphorus ratio**
indicator of phosphate release
aerobic lake sediments: 832

**Irradiance**
phytoplankton primary production: 892

**Irrigation canals**
mosquito breeding: 1214

**Isochronal development**
in Copepoda
critique: 727

**Isochrysis**
food for *Brachionus plicatilis*: 918

**Isoelectric focusing**
bisexual *Artemia* populations: 1225

**Isoperla**
*grammatica* and *I. difformis*
diet: 1045

**Isopoda**
*Asellus aquaticus*
effects of heavy metals: 1138
growth
utilization of grass carp faeces: 1333
*Paracilicaea keijii* n. sp.
Karachi coast (Pakistan): 828
epibionts on mangrove roots
effect on root growth: 481

**Isotopic fractionation**
sediment chronology: 1273

**Isozymes**
bisexual *Artemia* populations: 1225
clonal structure
bdelloid rotifer population: 1421
life-history traits
*Daphnia magna* clones: 1874
*Macrotrachela quadricornifera*
comparison of clonal populations: 1289
phylogeny of Actiniidae: 1103

**Issoca**
*rezendei*
karyology: 35

**Jellyfish**
*Aurelia aurita*
rhopalium development: 1628
*Cyanea*
taxonomy and biogeography: 224
envenomation syndromes
review of medical treatment: 515
envenomation
clinical manifestations: 247

**Juveniles**
*Osmerus eperlanus*, *Perca fluviatilis*, and *Rutilus rutilus*
food and habitat partitioning: 810
*Salmo salar*
distribution and behaviour: 685
territory size: 685

**Kallymenia**
*reniformis*
phycocolloid content and nature: 417

**Karst**
lakes
occurrence of *Anuraeopsis* spp.: 919
outflow
crustacean populations: 1080
springs
chemical/physical conditions: 113
decomposition processes: 113

**Karyology**
*Dugesia japonica*: 1683
*Geoplana marginata: 35*
*Issoca rezendei*: 35
*Gyratrix hermaphroditus*-complex: 1368
*Polycelis auriculata*: 1695

**Karyotype**
*Fredericella sultana*
N. American vs European forms: 1863

**Kellicottia**
*longispina*
grazing and assimilation rates: 954
morphological variation: 468

***Kelp***
forests
Californian coast
influence of sea urchin grazing: 551
*Laminaria*
growth and reproductive response
nutrient enrichment: 1876
*Macrocystis*
cultivation: 1647

**Keratella**
*cochlearis*
grazing and assimilation rates: 954
horizontal distribution: 1512
populations
morphological structure and functional patterns: 584
*quadrata*
grazing and assimilation rates: 954

**Key**
*Brachionus* spp.
Reconquista River (Argentina): 936
centric diatoms
River Thames (England): 1629
*Colpidium*: 587
larvae of *Onychogomphus* spp.: 453
*Mesopodopsis* spp.: 1860
*Scutellidium hippolytes*
nauplii: 375
species of Coronatae (polyps): 825

**Keystone species**
role in structuring macroalgal assemblages: 551

**Kilham, P.**
in memorium
list of publications: 55

**Kinetics**
phosphorus
Hartbeespoort Dam (South Africa): 1704

**Kinocilia**
in *Aurelia aurita* ephyrae: 1628

**Kirchneriella**
calanoid-cyclopoid-phytoplankton interactions
feeding experiments: 1626

**Kontikia**
*mexicana*
copulatory apparatus: 1267

**Laboratory**
behaviour and survival of Pacific salmon: 172
culture variation
inconsistencies in *Daphnia* bioassay: 90
feeding, growth and shell morphology
*Nucella lapillus*
effect of crab effluent: 1297
effect of scent of damaged conspecifics: 1297
grazing
*Cyclops kolensis* and *C. vicinus*: 14
leaching
*Berzelia lanuginosa* and *Elegia thyrsifera: 1390*
life-cycle study
*Apatania fimbriata*: 76
*Sericostoma personatum: 1794*
light dark-dependent food consumption
*Sericostoma personatum*: 1794
organic matter distribution
role of *Sericostoma personatum* larvae: 1793
pathogenicity of *Aphanomyces astaci*
for Irish freshwater crayfish: 1089
phosphorus and nitrogen excretion
*Euchlanis*: 677
rearing
*Neodiaptomus lindbergi*: 421
verification
planktivorous feeding of arctic grayling
simulation model: 1256

**Laboratory Scale Enclosures**
underwater light field
characterization: 631
effect of mixing regime on algal photosynthesis: 929

**Laevicaudata**
species distribution
Mexico: 1031

**Lagoons**
Mauritius
flora and fishes
pollution effects: 504

**Lake acidification**
see Acidification: 230
effect on lake sediment distribution
carbonaceous particles as markers: 1838

**Lake aeration**
effects on eutrophication
Lake Särkinen (Finland, Sotkamo): 1491

**Lake Baikal**
fauna
adaptive radiation and speciation
comparison with Lakes Tanganyika and Malawi: 565

**Lake level changes**
impact on sediment record
Slapton Ley (U.K., Devon): 738
evolutionary history
Lake Honghu (central China): 252
effect on limnological development: 580

**Lake Malawi**
fauna
adaptive radiation and speciation
comparison with Lake Baikal: 565

**Lake management**
nutrient removal rates
operation of Kis-Balaton reservoir (Hungary): 1671

**Lake mapping**
crater lake
Malha (Sudan): 219

**Lake ontogeny**
for paleoclimate: 412

**Lake recovery**
use of biomanipulation technique
Lago di Candia (Northern Italy): 621

**Lake restoration**
advantages of whole-lake manipulation-experiments
Lake Zwemlust (The Netherlands): 1743
biomanipulation plus nutrient control: 784, 964
by fish manipulation
Danish lakes: 835
by macrophyte development
creation of sheltered areas: 1769
by P inactivation with iron (III) chloride: 182
coupling of phytoplankton and detritus
Lake Loosdrecht (The Netherlands): 630
dredging
phosphorus-rich sediment: 1740
dynamics and role of zooplankton
Loosdrecht lakes (The Netherlands): 678
dynamics of phytoplankton detritus
Lake Loosdrecht (The Netherlands): 1284
effect of whole-lake food-web manipulation-experiment
Lake Breukeleveen (The Netherlands): 1742
engineering and biological approaches: 1176
fish stock manipulation and nutrient reduction: 663
fish-stock manipulation
Lake Klein Vogelenzang (The Netherlands): 1741
in relation to phosphorus flow
Lake Loosdrecht (The Netherlands): 1754
measures
for Hollands Ankeveen lakes: 1772
for Loosdrecht lakes (The Netherlands): 487
reduction of phosphrus loads
Loosdrecht Lakes (The Netherlands): 1751
role of *Dreissena polymorpha*: 1401
role of Water Quality Research Loosdrecht Lakes: 1755

salmonid fish reproduction: 1189
shallow lake ecosystems (The Netherlands)
epilogue: 1752
trends and relationships
between environmental variables: 1757

**Lake size**
zooplankton species composition: 1562

**Lake Tanganyika**
fauna
adaptive radiation and speciation
comparison with Lake Baikal: 565

**Lake trophy**
paleoecological changes
Lake Bjäresjösjön (S. Sweden): 580

**Lake trout**
predation effect
on slimy sculpin abundance and growth
Toolik Lake (USA, Alaska): 1110

**Lake water**
mercury: 50, 1240

**Lake-catchment ecosystem**
vegetation change and pollen recruitment
paleoecology: 386
erosional processes
sediment records
review: 405

**Lamin**
in extracellular matrix
hydrozoan jellyfish: 1526

**Laminaria**
*abyssalis*
life cycle: 1878
enzyme analysis
taxonomy: 159
for human consumption
Namibian coast: 1159
growth
reproductive response
nutrient enrichment: 1876
harvesting
ecological impact
northwest Atlantic: 1561
heated effluents
abundance changes: 1247
laboratory culture: 1878
seaweed resources
Spain: 680
subtidal regions
New Zealand: 1520

**Laminariales**
*Ecklonia stolonifera*
holdfasts
size-age relation: 1252

**Land use**
influence on sedimentation
River Kyrönjoki delta (western Finland): 739
paleoecological changes
Lake Bjäresjösjön (S. Sweden): 580
patterns in catchment
heavy metal pollution
Llangorse Lake (U.K., Wales): 851

**Land-water interface**
source of dissolved organic matter
freshwater ecosystems: 1830

**Landhoppers**
local distributions
supralittoral and maritime zones
west coast of Tasmania: 1425

**Landings**
*Metapenaeus affinis*
Iraq: 1486

**Landscape history**
from fossil pollen in lake sediment: 386

**Lanistes**
*ovum*
infection by *Unionicola macani*: 507

**Laodicea**
*indica*
life cycle: 204

**Largemouth bass**
predation on crayfish
experiment: 366

**Larvae**
abundance
*Chironomus circumdatus*
effect of biotic and abiotic factors: 1492
*Agapetus fuscipes*
toxicity of cadmium: 1101
Anthozoa: 508
Anura
suspension feeding: 1774
*Chaoborus americanus*
dry weight estimation: 1720
*Cloeon triangulifer* survival
effect of aluminum: 1672
effect of calcium and low pH: 1672
development
*Favia favus*: 1572
*Littorina*: 1403
*Neodiaptomus lindbergi*: 421
*Paralabidocera antarctica*: 1686
*Philyra globasa*: 926
*Phyllodiaptomus blanci*: 1396
*Platygyra lamellina*: 1572
*Plea frontalis*: 135
Digenea
in snails: 3

feeding habits
*Mirogrex terraesanctae: 83, 85*
fish
distribution and abundance
St. Clair River delta (Canada): 985, 986
effect of pollution
Lake Päijänne (Finland): 694
food intake estimation
*Coregonus albula*: 871
morphology
*Onychogomphus* spp.: 453
prey preferences
*Macquaria ambigua*: 70
settlement
*Sertularia cupressina*: 1527

**Larval bottleneck**
for *Lota lota*
impact of lake herring
Lake Opeongo (Canada, Ontario): 269

**Laser**
*in situ* measurement
phytoplankton abundance and size spectra: 1727

**Laser rangefinder**
rapid lake mapping: 219

**Late Glacial**
chironomid communities
analogy with modern arctic/alpine forms: 1796
chronology
AMS-14C-datings of terrestrial plant remains: 1009
history
'shallow lake' (Belgium): 412

**Late Quaternary**
absolute dating by varve chronology: 1888
chronology of major paleohydrological events
NW Africa: 542

**Lates**
introduction
in Lakes Victoria and Kyoga
impact on fisheries: 937
*niloticus*
Mwanza Gulf (Lake Victoria)
dietary changes: 1155
fishery: 1264

**Latitudinal**
distribution
trout in New Zealand: 1537
effect on life-history traits
aquatic gammarideans: 1479
gradients
effect on temporal variability
algal biomass and primary productivity: 123
species richness: 1567
variation
shell mineralogy
Littorinidae: 1690

**Laurencia**
development
tissue culture: 1438

**$LC_{50}$**
acute cadmium toxicity
to stream invertebrates: 604

**Leaching**
effect on water chemistry: 1012
*Berzelia lanuginosa* and *Elegia thyrsifera*
laboratory experiment: 1390
effect on decomposition rate of plant material: 703
polyphenolic compounds from vegetation: 1553

**Lead**
accumulation
drifting macrophytes: 1055
oligochaetes: 1477
concentrations
aquatic macrophytes: 1346
*Chironomus* larvae: 824
depuration
*Anodonta cygnea*: 1482
monitoring by *Enteromorpha*: 1514
uptake and effects
*Chironomus riparius* larvae: 1709
*Anodonta cygnea*: 1482
uptake rate
*Branchinecta longiantenna*: 1154

**Leaf area index**
*Nymphaea tetragona*: 939

**Leaf bags**
processing of white oak leaves: 1657

**Leaf decomposition**
north temperate
vs south temperate streams (USA): 1188
rates
*Tessaria integrifolia*
Parana River (Argentina): 1228

**Leaf life span**
*Nymphaea tetragona*: 939

**Leaf litter**
breakdown
rate: 371
influence of litter bag designs: 1651
cellulase activity: 1806
decomposition: 206
of *Platanus orientalis*
feeding tests with caddis and amphipod larvae: 1042
processing
impact of highway construction: 1657
macroinvertebrate densities: 659

role of macroinvertebrates: 1134
with decomposition fungi
black-water river (Amazon Basin): 1797

**Leaf packs**
effect of composition on processing
mixed vs single species: 981
invertebrate assemblages
streams: 428

**Learning**
in relation to feeding behaviour
*Littorina littorea*: 802

**Lecane**
*dumonti* n.sp.: 1546
*nigeriensis* n.sp.: 1546
*nwadiaroi* n.sp.: 1546
*simonneae* n.sp.: 1546
*stichoclysta* n.sp.: 1546
*sylviae* n.sp.: 1546

**Lecithoepitheliata**
morphology, systematics and phylogeny
review: 1711

**Lectins**
from marine algae
properties: 777

**Leech**
*Alboglossiphonia polypompholyx*
ecology and host specificity: 478
life cycle: 478

**Lemanea**
*fucina*
phenology: 1782

**Lemna**
bioassay organism
phytotoxicity of glyphosate: 1004
*minor*
phytomonitoring
of pulverized fuel ash leachates: 831
role in bioassays: 1602

**Length frequency analysis**
*Luciolates* demography
Lake Tanganyika: 1163

**Lens**
*Allostoma* sp.
ultrastructure: 962

**Lentic environments**
fish populations
Paraná River (Argentina): 343
freshwater macrofauna
Yemen Arab Republic: 25
Paraná River valley
*Prochilodus platensis*
density: 344
tropical
invertebrate zooplankton predators
composition and diversity: 520

**Lepadella**
*berzinsi* n.sp.: 1546
*curvicaudata* n.sp.: 1731
*discoidea* n.sp.: 1546

**Lepidurus**
*couesii*
egg hatching
effect of temperature: 712
*packardi*
diapause egg reserves
contributory factors: 16

**Lepomis**
*cyanellus*
biological control of mosquitoes: 176

**Leptodora**
*kindti*
feeding behaviour
impact on zooplankton community
Neusiedler See (Austria): 747
predation on rotifers: 1091

**Leptolaimus**
*meyer-reili* n.sp.: 833

**Leptomedusae**
*Laodicea indica*
life cycle: 204

**Leptophlebia**
*cupida*
molting, mortality and ion concentration
effect of pH depressions: 1462

**Leptoria**
*phrygia*
predation by *Acanthaster planci*: 265

**Lessonia**
harvesting
ecological effects: 1763
juvenile sporophytes
culture and growth: 464

**Lessoniaceae**
biogeography: 302

**Leucine**
uptake
in polyhumic lake: 862
planarian cell culture: 573

**Leuciscus**
*svallize*
biology

Kremasta reservoir (Greece): 463

***Libellula***
*julia*
effect of aluminum
on water balance: 1447
on hemolymph ionic and acid-base regulation: 1447
on oxygen consumption: 1448

**Life cycles**
*Alboglossiphonia polypompholyx*: 478
*Boergesenia: 158*
*Brachionus plicatilis*: 917
*Carybdea sivickisi*: 730
*Chilina gibbosa*: 198
*Chirocephalus diaphanus: 1208*
*Chironex fleckeri*: 729
*Corophium curvispinum*: 1212
*Cyclops scutifer: 479*
*Daphnia cucullata*
differences in clonal groups: 462
*Diceratocephala boschmai*: 852
*Dreissena polymorpha*: 1023
*Dugesia bengalensis*: 12
*Enchytraeus variatus*: 203
*Ephydra hians*: 745
*Fukaurahydra anthoformis: 1872*
*Hataia parv*: 1872
implications for taxonomy
phyllophoroid algae: 1034
*Laodicea indica*: 204
*Littorina obtusa* vs *L. mariae*
in relation to digenean infections: 1846
*Mesocyclops leuckarti*: 479
*Neodiaptomus lindbergi*: 421
*Neomysis mercedis*: 341
*Onychogomphus* spp.: 453
*Paralabidocera antarctica*: 1686
parameters
*Daphnia pulex* and *D. magna*
modification by *Chaoborus* presence: 888
patterns
river invertebrates: 946
*Philyra globasa*: 926
*Phyllodiaptomus blanci*: 1396
*Plea frontalis*: 135
rotifers and cladocerans: 456
*Sericostoma personatum*: 1794
*Spongilla lacustris*: 1050
strategies
epiphytic Chironomidae: 134
phyllopods: 700
*Stratiotes aloides clones*
comparison: 1408
*Tanymastix stagnalis*: 1208
traits
aquatic gammaridean amphipods
review: 1479
insects
influence on rate of recolonisation: 1798
*Macrotrachela quadricornifera*: 1420
*Tubificoides amplivasatus*: 492
*Valonia*: 158

**Life span**
Rotifera: 1147

**Life table**
*Brachionus calyciflorus*
effect of sublethal levels of endosulfan: 519
*Brachionus plicatilis*: 1885
*Daphnia obtusa*
clonal groups
determination of genotype differences: 86
toxicity assessment of chromium: 332

**Life tactics**
*Macrotrachela quadricornifera*: 1420

**Life history**
patterns
*Cyprinus carpio*: 518
*Anisomysis mixta australis: 517*
*Paramesopodopsis rufa*: 517
*Tenagomysis tasmaniae*: 517
traits
*Daphnia magna* clones: 1874

**Ligands**
effect on toxicity of mercury compounds: 1419

**Light attenuation**
effect on phytoplankton growth efficiency: 632

**Light wave length**
in relation to response time
Hydra: 1674

**Light**
adaptation
symbiotic zooxanthellae: 1713
attenuation
effect of resuspension: 740
suspended solids: 389, 1746
phytoplankton and tripton: 1433
effect on primary production: 1456
effect on algal growth: 1433
effect on egg hatching
*Streptocephalus macrourus*: 1149
effect on horizontal distribution
*Keratella cochlearis*: 1512
*Polyarthra vulgaris*: 1512
effect on phytosynthetic rate
*Dunaliella parva*: 837
population dynamics
*Tisbe holothuriae*: 1140
effect on resting egg hatching
*Brachionus plicatilis*: 691
effect on seaweed production: 1114
effect on urea uptake by phytoplankton: 1777
*Gracilaria* growth and photosynthesis: 989
photon capture

seaweeds: 1386
regime in relation to morphometry: 139
response
in acoel flatworms: 1873
transformation
in symbiotic *Leptoseris* coral: 1523
underwater
African reservoir: 1441

**Light-dark cycle**
*Thalassiosira weissflogii*
intracellular free amino acids
diel variation: 1075
effect on photosynthesis and respiration
*Chlorella pyrenoidosa*: 666
dependence
food consumption
in *Sericostoma personatum*: 1794
rhythm
in relation to lake morphometry
adaptation of *Oscillatoria agardhii*: 139

**Limb structure**
*Streptocephalus* spp.
SEM morphology: 1135

**Limestone stream**
diatom assemblages: 1475

**Limestone**
surface area determination
linear regression: 329

**Liming**
effect on phosphate deficiency
in phytoplankton
acidified lakes: 1335
effect on sediment pH: 1598
redox and phosphorus dynamics: 1598
of acidified Swedish lakes
effect on fish populations: 407

**Limiting factors**
for *Gammarus* distribution: 1127
determination
algal growth potential tests: 902

**Limnephilidae**
response to chemical attractants: 34

**Limnetic**
fauna of Pleniglacial
subfossil remains of Chironomidae and Cladocera: 765
zooplankton
humic lake: 734
Lake Mead (USA): 1609

**Limnocorrals**
biomanipulation
Postfelden Reservoir (Germany): 1697
ecosystem control mechanisms
Toolik Lake (USA, Alaska): 1257

**Limnodrilus**
*hoffmeisteri*
dispersal
via predation by *Erpobdella punctata*: 876

**Limnohumic substances**
microcrustacean occurrence: 150
rotifer occurrence: 154

**Limnologist**
Sikko Parma
biographical sketch
scientific contributions: 1753

**Limnology**
Blue Lagoon and Lake Freshwater (Australia): 1285
Chinese and Mongolian saline lakes: 1850
El Sol (Mexico): 131
filling phase
Mazvikadei Reservoir (Zimbabwe): 1078
Gebel Aulia Reservoir (Sudan, White Nile): 713
Lake Tebenquiche (Chile): 1891
lakes and impoundments (Nepal): 848
lakes and rivers (arctic Alaska): 904
lakes
new bathymetric map: 1165
plankton behaviour
size efficiency hypothesis: 1327
Qilu Hu (China, Yunnan Province)
sediment geochemistry: 220
saline lakes (Uganda): 1203
Sambhar and Didwana lakes (India)
comparison: 815
subtropical river
altitudinal replacement of Ephemeroptera: 437
tropical
northern Australia: 725

**Lindane**
effect on zooplankton: 1708
toxicity and biocentration
*Gambusia affinis*: 1707
*Rana temporaria* tadpoles: 1707

**Linear alkylbenzenesulphonates**
sediment-water exchange: 40

**Linear regression**
limestone surface area
determination: 329

**Lipid**
fractions
in sediment cores: 506
composition
as taxonomic index
marine microalgae: 1183
content
rotifers: 674

effect on carbon content
*Eudiaptomus gracilis*: 940
*Thermocyclops oithonoides*: 940
in *Chlorella*: 1684
isolation
from recent sediments: 357
yeast as algal substitute
anostracan culture: 354

**Lipolytic bacteria**
temporal distribution in sediment
Lagoa do Infernao (SP Brazil): 558

**Lithothamnion**
*corallioides*
growth rate: 1358

**Litter**
annual rates
mangroves of N.W. Sri Lankan coast: 41
bag designs
effect on leaf breakdown: 1651
decomposition: 113, 157, 703, 801, 1128, 1371
eucalypt
benthic organic matter: 207
maple leaf processing
invertebrate colonisation: 168
processing by macroinvertebrates: 1134

**Littoral**
benthic fauna
distribution and abundance
prairie saline lakes (Canada): 702
benthic invertebrates
respiration: 698
biomanipulation
macrophyte sheltering: 1769
Chydoridae of Ireland
ecology and distribution: 449
dominance by *Vaucheria dichotoma*
Lake Mikolajskie (Poland): 1286
grazers vs metaphytic algae: 554
invertebrate community
effect of *Cottus cognatus* predation: 369
zooplankton
communities
Lake Mead (USA): 1609
dynamics
humic lake: 734

**Littoral-pelagial interchange**
of dissolved organic matter
polyhumic lake: 862

**Littorina**
*arcana*
distribution, abundance and shell morphology
Robin Hood's Bay (U.K.): 461
shell morphology
intraspecific variation: 646
biochemical genetic variation: 1809
cladistic phylogeny: 1403
*littorea*
dispersal rate
comparison with *L. saxatilis*: 841
mating behaviour
comparison with *L. saxatilis*: 1513
*mariae*
epiphyte-grazing
effect on *Fucus* community structure: 1845
life history
effect of trematode infection: 1846
*neglecta*
morph of *Littorina saxatilis*: 839
*obtusa*
life history
effect of trematode infection: 1846
*pallescens* morphs
differences in shell properties: 336
populations
on exposed and protected shores
genetic differentiation: 205
*saxatilis*
distribution, abundance and shell morphology
Robin Hood's Bay (U.K.): 461
phylogeny: 1664
shell morphology
intraspecific variation: 646
species-complex
hybridization: 1810
spp. biogeography
Great Britain: 1141

**Littorinidae**
shell microstructure and mineralogy
ecological and evolutionary significance: 1690

**Live feed**
enriched *Brachionus plicatilis*
to fish larvae: 1271

**Livestock waste**
reclamation
by *Streptoceplalus macrourus*: 1150

**Loading constraints**
in mating
*Gammarus* spp.: 11

**Loading**
rates
phosphorus
Hartbeespoort Dam (South Africa): 1705

**Local diversity**
for compositional diversity model: 858

**Locomotion**
*Corynactis californica*: 285
mechanics of ciliary movement
ctenophores: 1084

**Logging**
catchment disturbance

effect on diversity of Ephemeroptera: 684

**Long-term changes**
benthos
Tees bay and estuary (England): 1568
biological control by silver carp
Netofa reservoirs (Israel): 988
biotic and abiotic interactions
in relation to eutrophication: 955
ecology of *Vaucheria dichotoma*
Lake Mikolajskie (Poland): 1286
fish and zooplankton communities
Lake Ringsjön (Sweden): 142
lake levels, salinity and biological community
Great Salt Lake (USA, Utah): 1649
limnetic zooplankton
Loosdrecht lakes (The Netherlands): 678
*Nodularia spumigena* blooms
Pyramid Lake (USA, Nevada): 583
nutrient stocks in sediments
Lake Geneva (France/Switzerland): 1627
phytoplankton community
Lake Sevan (northwest Armenia): 1307
phytoplankton and submerged macrophytes
Danube Delta Lakes: 1738
planktonic Cladocera assemblage
Popradské plesa (Czecho-Slovakia): 1790
population dynamics
*Rutilus rutilus*
Alderfen Broad (England): 1325
*Tubificoides amplivasatus*
Oresund (Denmark): 492
primary productivity
Lake Tahoe (USA): 826
spring development of phytoplankton
Lake Erken (Sweden): 1336
vegetation
Kopacki Rit (Yugoslavia): 1716
water quality and biological communities
Lake Ontario (Canada): 1593
water transparency
Lake Geneva (France/Switzerland): 100
wetland succession
St. Marys River (USA, Michigan): 1844
zooplankton
Lake Geneva (France/Switzerland): 100
Lake Kinneret (Israel): 638

**Long-Term Ecological Research**
North Inlet ecosystem
South Carolina: 1556

**Long-term montoring**
limnological parameters
Lago Maggiore (Italy): 145

**Long-term stability**
fish manipulation in Danish lakes
whole-lake experiments: 834

**Long-term studies**
*Anabaena circinalis*
behaviour in field: 1096

**Long-term trends**
subtidal macro-benthos
North Inlet (South Carolina): 1556

**Longevity**
cyclopoid copepods
effect of temperature: 4, 1037

**Longitudinal distribution**
invertebrates
chalk stream (U.K., Berkshire): 1867

**Lophocharis**
*kutikovae* n.sp.: 1146
*turanica* n.sp.: 1146

**Loss rates**
decomposition dynamics
*Spartina*: 1359
vs growth rates
phytoplankton: 1153
litter breakdown
fine vs coarse treatments: 801

**Lota**
*lota*
interaction with *Salvelinus namaycush*
Lake Opeongo (Canada, Ontario): 269
young-of-the-year
biology
Shebandowan Lake (Canada, Ontario): 1473

**Lotic environments**
Appalachian mountain streams
ecology: 659
*Batrachospermum boryanum*
reproductive ecology: 697
British Columbia stream
macroinvertebrate drift: 144
chalk streams
protozoan communities: 1589
*Gammarus* distribution: 1127
hydropsychid guild: 263
limestone stream
diatom assemblage: 1475
macrophytes
stem adaptations: 223
Ogeechee River and Black Creek (USA)
protozoan community: 271
phytomicrofauna: 314
River Dan (Israel)
faunal relationship with abiotic factors: 406
stream fishes
microhabitat selection: 503
stream invertebrates
effect of mine drainage: 1586
subarctic streams (Canada, Québec)
associations of aquatic insects: 720
Surber vs kick sampling: 1656
water quality

macroinvertebrate community structure: 240
water velocity measurement
use of head tube: 310

**Low diffusion gasometer**
$N_2O$ evolution
tropical wetlands: 1831

**Low oxygen layer**
protective significance
*Daphnia* population: 708

**Low temperature**
survival of gemmules
*Anheteromeyenia ryderi*: 513

**Lowland**
lake
Groby Pool (England, Leics)
vegetation change
and pollen recruitment: 386
river
River Lujan (Argentina, Buenos Aires)
phytoplankton community: 619
reservoir
Sulejow Reservoir (central Poland)
biomanipulation by fry communities: 1883

**LTER lakes**
Alaska
heterotrophic microplankton community
bootom-up regulation: 1464

**Luciolates**
demography
Lake Tanganyika: 1163

**Lumbriculidae**
evolution: 226
muscles
T-system: 471
*Lumbriculus variegatus*
sediment toxicity evaluation: 414

**Luminescent bacteria assay**
mercury speciation: 1419

**Lymnaea**
predation by lake trout and round whitefish
arctic lake (Alaska): 1133

**Lyngbya**
*wollei*
nitrogen fixation: 1338

**Lysosomes**
assessment of methylmercury stress
on *Mytilus edulis*: 1314

**Lytechinus**
ingestion: 1269

**Maar lakes**
in Germany and France
chironomid and cladoceran subfossils: 765
biogeochemical evolution
Basotu Lake District (Tanzania): 894

**Macquaria**
*ambigua* larvae
prey preferences: 70

**Macroalgae**
associated with seagrasses
Gazi Bay (Kenya): 342
bioconversion European projects: 1162
communities
functional response to tributyltin: 996
culture
nitrogen nutrition: 709
deep-water
photosynthetic performance: 1311
in coral reef communities: 438
interaction with macrozoobenthos
Lake Zwemlust (The Netherlands): 912
of streams: 859
patterns of organization
rocky intertidal and subtidal habitats
central Chile: 1500
seasonal distribution and abundance
Little River (USA, North Carolina): 498

**Macrobenthos**
activity
effect on particle redistribution
Gulf of Fos (France Carteau): 605
community structure
before and after pollution abatement: 721
effects of oil: 1222
long-term trends
North Inlet (South Carolina): 1556

**Macrobrachium**
*olfersii*
effect of eyestalk ablation: 1118
*handschini*
redescription: 237

**Macrocyclops**
*albidus*
temperature effect on reproduction: 4

**Macrocystis**
biogeography: 302
cultivation
Alaskan waters: 1647
gametophytes
sediment toxicity: 817

**Macrofauna**
colonisation of artificial habitats: 466
community types: 1767
density
effect of predation: 1362
lentic freshwaters
Yemen Arab Republic: 25

**Macroflora**
impact of acidification: 1813

**Macrofossils**
eutrophication trend: 550

**Macrograzing**
physical and chemical effects
on phytoplankton: 1696

**Macroinvertebrates**
associations
California marsh: 140
assemblages
mesh bags vs plastic traps: 428
benthos
seasonal dynamics
Ardèche River (France): 436
cellulase activity in gut: 1806
communities
assessment with Surber vs kick samples: 1656
effect of aquatic moss: 242
effect of riparian vegetation
Hong Kong streams: 446
impact of DDT contamination
Wheeler Reservoir (Alabama): 1815
running waters
sampling strategy: 1450
saline river system (Australia): 240
saline stream: 1573
St. Clair River (Canada, Ontario): 661
detritivores
intermittent streams (Australia): 207
distribution
salt lakes (Australia): 1853
St. Clair River (Canada, Ontario): 660
drift
effect of long pools: 1072
lower Mississippi River (USA): 907
effect of power peaking flows: 1724
effect of pulp and paper mill discharges: 722
longitudinal distribution
in relation to salinization: 1855
of north temperate
vs south temperate streams (USA): 1188
of water hyacinth fringes
Sudd swamps (Sudan): 89
role in leaf processing: 801, 981, 1134
spatial distributional patterns
along rivers: 345
stream communities
spatial and temporal trends: 1426
submerged undercut banks
comparison with riffles and pools: 1417
use in biotic indices: 149
vertical distribution
riverine mud: 976

**Macrophytes**
abundance
indirect effect of fish removal: 717
accumulators of metals
Lake Ontario (Canada): 364
as refuges for herbivores: 1558
communities
River Nile (Egypt): 1633
St. Clair River (Canada, Ontario): 661
complexity
epiphytal amphipod communities: 1470
concentration of heavy metals
tropical coastal lagoons: 945
decomposition
effect on water quality
Lake Biwa (Japan): 941
distribution
Lake St. Clair (Canada/USA): 977
in relation to epiphytic Chironomidae and diatoms
chalk streams: 1345
interaction with macroinvertebrates
Lake Zwemlust (The Netherlands): 912
*Potamogeton* bed
invertebrate associations: 140
relationship with phytoplankton
Lake Naivasha (Kenya): 719
relationship with gastropod distribution: 268
removal
ecological effects
Dal Lake (India, Kashmir): 1892
restoration
Encañizada and Tancada lagoons (Spain): 331
seasonal distribution and abundance
Little River (USA, North Carolina): 498
spread of *Elodea canadensis*
Lake Baikal: 922
stem adaptations
to life in moving water: 223

**Macrophytofauna**
density and biomass
Lake Zwemlust (The Netherlands): 912

**Macrostomidae**
*Macrostomum*
body-wall musculature: 1428
nervous system
immunoreactivity to SALMF-amide: 1406
evidence of catecholamines: 1412

**Macrotrachela**
*quadircornifera*
clonal structure
temporal analysis: 1421
isoenzymatic patterns
comparison of clonal populations: 1289
life histroy traits
comparison of strains: 1420

**Macrozoobenthos**
interaction with macrophytes
Lake Zwemlust (The Netherlands): 912

**Macrozooplankton**
size
effect on chlorophyll-total P
regression residuals: 1374

**Madagascar**
coasts
phycocolloids
from *Eucheuma denticulatum*: 1158
from *Gelidium madagascariense*: 1158

**Magnesium**
content
ostracod shells: 45
effect on $^{226}Ra$ and $^{45}Ca$ accumulation
by freshwater turtles: 830
regulating effect on algal P-nutrition: 861

**Magnetic spherules**
in sediments
Crummock Water (U.K.): 1115

**Malate dehydrogenase activity**
effects of contaminants on metabolism: 1314

**Male induction**
intraspecific variability
*Daphnia pulex* clones: 969

**Mallomonas**
vertical distribution
stratified humic lake: 72

**Mammals**
predation on Cnidaria
review: 73

**Management**
coral reef communities: 438
insular Caribbean mangroves
in relation to site location and community type: 87
lakes and rivers: 1177
mangrove forest reserves (Tanzania): 1551
Muthupet mangrove ecosystem (India)
impact of past on present: 82
of Embalse del Rió III Reservoir (Argentina)
nuclear power plant impact: 1061
of *Gelidium* resource: 856
water quality
probabilistic models: 370
water
role of scientists: 1702
role of politicians and bureaucrats: 1702

**Manganese**
accumulation
*Nereis diversicolor*: 297
*Scrobicularia plana*: 297

biogeochemistry
Lake Toolik (Alaska): 350
cycling
effect on phytoplankton: 725

**Mangrove estuary**
stratification
intratidal fluctuations: 1732

**Mangroves**
Brunei
ecology of fungi: 799
Coringa mangrove (India)
structure and species distribution: 81
exploitation
fishery resources (Zanzibar): 1235
Kakinada coast (India)
physical-chemical factors: 1550
primary production: 1550
Mauritius
species composition: 504
nematodes
temperate Australia: 1237
Nigerian estuaries
comparative: 39
nursery and feeding grounds
for fish and prawns: 1508
of mainland Tanzania
management plans: 1551
Rufiji delta (Tanzania)
physical processes: 555

**Manipulation**
of fish
ecosystem control mechanism
Toolik Lake (USA, Alaska): 1257

**Mannuronan 5-epimerase**
dye-based assay: 1381

**Maraenobiotus**
*canadensis* n.sp.: 541

**Mariculture**
see also Cultivation and Seaweed
*Brachionus*: 1217
development in mangroves (Kenya): 1389
*Eucheuma* spp.: 80
*Gelidium*: 1129
microalgae: 1183
*Macrocystis*: 1647
*Ulvaria oxysperma*
strain selection and cell isolation: 870

**Marine**
algae
*Pterocladia capillacea*
elemental composition: 610
agar quality and yield: 610
benthos
long-term studies
Tees bay (N.E. England): 1568
ecology
hydroids: 256
fungi
alginate decomposition
alginase enzyme system: 1517
distribution
Straits of Messina (Italy): 651
ecology: 799
incursions
in Lake Fletcher (Antarctica)
effect on zooplankton composition: 494
interstitial
*Ingolfiella canariensis* n.sp.
Tenerife and Hierro (Spain): 1787
Jellyfish Lake (Western Caroline Islands)
*Entacmaea medusivora* n.sp.: 509
larvae
rotifers as live feed: 1011
microalgae
total fatty acid composition
as taxonomic index: 1183
mites
geographical and ecological survey: 114
nematodes
*Adoncholaimus papillatus: 577*
*Diplopeltula* spp. (see New Taxa): 1779
*Viscosia erasmi* n.sp.: 577
nutrient dynamics: 267
Oligochaeta
taxonomy and biogeography
Jiaozhou Bay (China): 491
pelagic food web interations: 267
phytoplankton
Warri/Forcados Estuary (Nigeria): 1278
sediments
denitrification: 193
microaerophilic bacteria
distribution: 523
teleosts
*Arius felis*
diel activity: 1642

**Marionina**
taxonomy: 323

**Marisa**
food selection: 1029

**Maritime**
Talitridae
distribution patterns
west coast of Tasmania: 1425

**Marl**
lakes
sediment geochemistry
Bosherston Lakes (U.K.): 1402
beds
Bay of Brest (France): 1358

**Mass balance**
cation export to streams

Alaskan arctic watersheds: 348
model
phosphorus
Lakes Haukivesi and Päijänne (Finland): 564
nitrate depletion
stream channel: 339
phosphrus budget: 1375

**Mass culture**
anostracans from Italy
review: 1209
*Tubifex tubifex*: 192
*Dunaliella salina*
for ß-carotene: 1181

**Massive coral**
populations
*Diploastrea heliopora: 265*
*Leptoria phrygia*: 265

**Mastigophores**
*Chironex fleckeri*
envenomation process
mechanism of discharge: 486

**Maternal care**
*Caprella decipiens*: 57
*Caprella monoceros*: 57

**Maternal effects**
inconsistencies in *Daphnia* bioassay: 90

**Mating**
behaviour
Amphipoda: 333
*Gammarus* spp.: 11
*Littorina littorea: 1513*
*Littorina saxatilis*: 1513
monogonont rotifers: 1604

**Matrix models**
population growth
*Iridaea*: 52

**Maturation**
Plecoptera: 1893

**Maturity**
*Clarias* spp.: 500
*Rastrelliger kanagurta*: 1216

**Mayflies**
see also Ephemeroptera
*Baetis*
drift patterns and population density: 758
*Hexagenia limbata*
secondary production: 1822
*Stenonema femoratum* and *Leptophlebia cupida*
molting, mortality and ion concentration: 1462

**Mechanical deweeding**
ecological effects
Dal Lake (India): 1892

**Mechanical shock**
effect on egg survival and hatching
British salmonids: 360

**Mechanoreception**
sea anemones: 1112

**Mechanoreceptors**
kinocilia of rhopalia
*Aurelia aurita* ephyrae: 1628

**Medical treatment**
envenomation syndromes
cubozoan jellyfish: 515

**Mediterranean deltas**
drainage channel
response to nutrient loading: 544

**Medusae**
*Aurelia aurita* and *Aequorea victoria*
feeding behaviour: 61
*Millepora complanata*
ultrastructure: 991

**Megacyclops**
*viridis*
temperature effect on reproduction: 4

**Megalopa**
development
*Philyra globasa*: 926

**Megascolecidae**
Jiaozhou Bay (China, Yellow Sea coast): 491

**Meiobenthos**
distribution
mangroves of Gazi Bay (Kenya): 1759

**Meiofauna**
density
effect of predation
tropical freshwaters (Venezuela): 1362
harpacticoid copepods
oil-pollution effects
on reproduction: 181
platyhelminths
Australia: 424
salt marsh
Basque Country: 1359

**Melanthalia**
*abscissa*
agar composition: 575

**Melatonin**
inhibition of planarian regeneration: 1879

**Melongena**
predation on epibionts of mangrove roots: 481

**Melosira**
Cape Maclear
Lake Malawi: 688
*italica*
urea uptake kinetics: 312

**Memory**
induction
in *Actinia equina*: 212

**Mentum deformities**
*Chironomus* larvae: 824

**Mercury**
speciation
luminescent bacteria toxicity assay: 1419
concentrations and sediment transport
Katun river (West Siberia): 1663
lake sediments and suspended matter: 50
lake water
in relation to water colour
and mercury in fish: 1240
monitoring by *Enteromorpha*
in estuaries: 1514
pollution
Tokuyama Bay (Japan): 1218

**Meromixis**
Ace Lake (Antarctica)
methane production: 556
Mahoney Lake (Canada, British Columbia)
autumnal mixing: 1808
microstratification: 1249
production and decomposition processes: 696
Tasmanian reservoirs
chemical stratification: 210

**Mertensia**
*ovum*
predation on *Calanus*: 1669

**Mesh bags**
study of macroinvertebrate assemblages
comparison with plastic traps: 428

**Mesh-size effects**
drift sample composition: 1587

**Mesocosm**
impacts of bleak and roach on water quality,
sedimentation and internal loading: 781
planktonic food chains
humic lakes: 1487, 1488
seasonal development of microbial variables
North Sea sediments: 460
microbial communities
limited vs unlimited membership: 1104
studies
effects of N:P supply
on plankton community: 441
effect of phosphate enrichment
on ammonium and nitrate flux
oligotrophic lake: 430
effect of roach
on phytoplankton productivity and biomass:
780
effect of lindane and deltamethrin
on zooplankton communities: 1708
effect of tebuthiuron
on aquatic productivity: 1693
use of bioassay techniques: 254

**Mesocyclops**
*edax*
phenology of dormancy
Lake Shenandoah (USA, Virginia): 427
prey selection
analysis: 821
interactions with calanoids
experiments: 1626
predation on rotifers vs crustaceans
predation risk estimation: 1843
spp. predation
on *Brachionus calyciflorus*: 1086
on *Ceriodaphnia cornuta*: 1086

**Mesoglea**
hydrozoan jellyfish
adhesion and spreading: 1526

**Mesopodopsis**
*aegyptia* n.sp.: 1860
*tropicalis* n.sp.: 1860
*wooldridgei* n.sp.: 1860

**Mesostoma**
*lingua*
predation on *Daphnia magna*: 455
spp. predation
on *Daphnia* and *Ceriodaphnia*: 1444
on zooplankton and mosquitoes: 175
by *Chaoborus* larvae and *Mesocyclops* sp.: 1444
spp. prey-killing mechanisms
review: 177
sp. vertical distribution
in relation to satiation: 397

**Metabolic pathway**
indoleamine
in *Hydra magnipapillata*: 1677

**Metabolic regulation**
at sediment-water interface
oyster-bed: 201

**Metabolism**
soft bottom benthos: 319

**Metabolites**
of macrograzers
effects on phytoplankton: 1696

**Metacercaria**
infection
to *Planaxis sulcatus*: 3

**Metal**
accumulation
chirominomid larvae
effect of age and body weight: 924
*Nereis diversicolor: 297*
*Scrobicularia plana*: 297
concentrations
in sediments: 1239
contamination
sediment and biota: 364
cycling
copper, manganese and zinc: 725
in pulverized fuel ash
accumulation by duckweed: 831
in surface waters
interactions with ligands: 613
toxicity
*Daphnia magna* and *Tubifex tubifex*: 1837
phytoplankton: 725, 1344
stream invertebrates: 604
uptake rate
determination
dialysis chambers: 1173
in *Branchinecta longiatenna*: 1154

**Metal-resistance mechanisms**
in bacteria
role in bioassay research: 1722

**Metamorphosis**
*Philyra globasa*: 926

**Metapenaeus**
*affinis*
abundance and seasonal migrations
Iraqi waters: 1486

**Meth-A fibrosarcoma**
antitumor activity
brown and red algae: 1244

**Methane**
lakes and rivers
arctic Alaska: 904

**Methanization**
bioconversion
macroalgae: 1162

**Methanogenesis**
in mangrove sediment
bacterial activity: 1156
rate
Ace Lake (Antarctica): 556

**Methanotrophic bacteria**
*Methylobacterium organophilum*
production of PHB: 1238

**Methodology**
Amphipod growth estimation
volumetric method: 1840
amphipod swimming: 202
concentration of benzo(a)pyrene equivalents
HPLC: 845
diatom-inferred pH
calibration methods
old vs new: 1694
deep chlorophyll *a* maxima
*in-vivo* flash fluorometry: 715
denitrifying capacity of sediments
acetylene blockage technique: 1831
dissolved oxygen estimation
modified Winkler titration: 1242
membrane covered electrode: 1242
gas stripping: 1242
dynamic light regime
algal cyclostat with computer-control: 931
effect of suspended sediment on primary productivity
carbon-14 technique: 1197
element concentrations in sediment and biota
atomic absorption spectrophotometry: 364
for enumeration of ciliates: 1328
for modern rotifer taxonomy: 920
for taxonomic and distributional studies
terrestrial flatworms: 1858
freshwater copepods
embryonic development duration
Belehrádek's equation: 465
growth in Anostraca
video technique: 402
Index of Biotic Integrity
modification: 1262
invertebrate separation from detritus
in benthic samples: 363
length (or area) measurement
underwater transects
odometre: 1184
long-preservation technique
for labelled cladocerans: 1182
sediment chemical composition
mapping techniques: 118
lead-210 for dating aquatic deposits
alpha spectrometry: 476
metal concentrations in sediment and biota
neutron activation analysis: 364
metal sorption/desorption process
multichamber device: 261
metal uptake rate
dialysis chambers: 1173
microbial control of dissolved organic carbon: 762
midwater hydro- and scyphozoan medusa
*in situ* observations: 968
nanomolar nitrate uptake
by *Phaeodactylum tricornutum*: 1383
nanomolar-nitrate determination
by $^{15}N$: 1588
net sedimentation
settling sedimentation traps: 132

nutrient deficiency estimation in soft muds
diffusion enrichment technique: 429
PAR transmittance estimation: 190
phosphatase activity
from microplankton activity: 143
phylogeny of *Littorina saxatilis*
enzyme data: 1664
phytoplankton biomass
comparison of methods: 163
phytoplankton cell identification and counting
flow cytometry: 93
plankton sampler: 990
plankton, periphyton and sediment diatoms
computerised plankton counter: 699
algal primary production
portable chamber: 574
preparation of bioclimatic prediction maps
BIOCLIM computer programme: 1854
prepatation of rotifer trophi
SEM study: 1494
preparation of sediment elutriates
rotary tumbler: 380
primary production estimation
incubator technique: 1434
rapid mineral analysis of sediments
QEM-SEM technique: 1435
rate of sedimentation
sediment traps: 693
rearing aquatic organisms
thermostat-controlled water-bath: 1069
re-attachment of *Gelidium sesquipedale*
spray system: 1483
rotifers
individual dry weight estimation: 1310
sediment chemical composition
sampling statistics: 118
sediment organic phosphate
by fractionation: 393
sediment phosphate
sequential fractionation: 669
sediment respiration
flask- and core-microcosms: 535
sediment sampling evaluation
by new weighting function
and index of reliability: 537
sediment toxicity to picoplankton
epifluorescence microscopy: 1557
sedimentary pigments
estimation
sources of error: 756
sedimentation rate
$^{210}$Pb dating techniques: 1232
separation of active bacterial fraction
ETS activity: 448
seston alkalinity in natural waters
volumetric titration: 335
Simuliidae sampling
surface area estimation, review: 1107
sulphate in freshwaters
colorimetric determination: 629
suspended sediment concentration
turbidimeters: 620
toxicity assessment
microcomputer-based
algal fluorescence technique: 1198
transferring sediment with intact seed banks: 662
tributyltin effects on *Fucus* communities
continuous flow-through system: 996
water velocity
head tube: 310

**Methylamine**
uptake
by phytoplankton: 1308

**Micro-ecosystem**
measurment of effects of soil contaminants: 1825

**Microaerophiles**
distribution
at sediment-water interface: 523

**Microalgae**
see also Algae and Seaweeds: 1181
food for *Streptoceplalus macrourus*
in culture: 1150
species composition
salt works (Italy, Tarquinia): 31

**Microbial**
activity
at sediment-water interface
review: 383
Lake Créteil (France): 595
in polyhumic lake: 1205
on litter: 113
seasonal development variables
North Sea sediments: 460
biomass
Vallentunasjön(Sweden): 239
by PLFA profiles: 1238
communities
for hazard assessment: 253
in methane-enriched HDD soil column: 1238
limited vs unlimited membership
evaluation and experimental tests: 1104
conditioning
eucalypt leaf breakdown: 206
control
of dissolved organic carbon in lakes: 762
ecology
*Chloronema*: 7
interactions
nutrient cycling: 267
loop
indicator of anthropogenic stress: 1200
in Lake Constance (Germany): 1821
role of bacterial ectoenzymes: 307
role of pelagic bacteria: 1721
mats
species composition
salt works of (Italy, Tarquinia): 31
metal resistance and detoxification mechanisms
role in bioassay research: 1722

utilization
coral mucus: 1736

**Microbiology**
acid lakes (USA, Florida)
effects of drought and post-drought conditions: 818
seasonal relationships: 819
tests
for battery of screening tests technique: 459

**Microcomputer**
algal fluorescence technique
for toxicity assessment: 1198

**Microcosm**
methane-enriched HHD soil column
type II methanotorphs: 1238
studies
use of bioassay techniques: 254
nitrogen transformation
in sediments: 338
pelagic Cladocera
self-maintenance: 1092

**Microcrustaceans**
Cladocera and Copepoda
effect of pH and humic content: 150
occurrence
in relation to trophic degree: 151

**Microcystis**
*aeruginosa*
impact of cage fish farming: 1654
benthic biomass
phosphorus release from sediments: 239
population dynamics and buoyancy
in hyperscum formation: 1887
*pyrifera*
harvesting
ecological impact: 108
relationship with extracellular dissolved carbon
in hypertrophic waters: 1439, 1440
toxic bloom: 1582

**Microdistribution**
invertebrates
stream pools: 71

**Microfauna**
associated with aquatic macrophytes: 314
crustaceans
*Potamogeton* bed: 140

**Microflagellates**
abundance and feeding
Kentucky Lake (USA): 1360

**Microflora**
contribution to decomposition: 1825

**Micrograzing**
physical and chemical effects
on enclosed *in situ* phytoplankton: 1696

**Microhabitat**
selection stream fishes: 503
shift
*Sericostoma personatum*: 1794

**Micronecta**
*scutellaris*
population ecology
Lake Naivasha (Kenya): 315

**Microorganisms**
bioassay responses to sediment elutriates
St. Lawrence River (Canada): 1591
decomposition of reed leaves: 1685
degradation of arsenobetaine to arsenic: 704

**Microphytobenthos**
biomass: 292
chloropigment concentrations: 1418

**Microphytoplankton**
species composition and population density: 864

**Microplankton**
community structure
arctic LTER lakes: 1464
ETS-activity
Lake Balaton (Hungary): 578
phosphatase activity determination: 143

**Microplate bioassay**
round robin testing
*Selenastrum capricornutum*: 1698

**Micropsectra**
distribution and phenology
Starnberger See (Germany): 607

**Microspectrophotometry**
parasexual fusion products
green algae: 868

**Microstomum**
*lineare*
asexual reproduction and regeneration: 1296

**Microstratification**
causes and biological significance: 1249
phytoplankton
effect of wind: 1288

**Microtox test**
detection of aquatic environmental pollution: 1410

**Microtrichs**
type II
distribution and frequency

in gammaridean amphipods: 1645

**Microtubules**
in *Dugesia japonica*: 776

**Microturbellarians**
extracellular matrix
SEM study: 998

**Middle Pleistocene**
diatom composition in interglacial lake sediments
Poland: 1057

**Midge**
Chironomidae
species richness: 1379

**Midwater**
hydro- and scyphozoan medusae
North Atlantic: 968

**Migration**
hypolimnetic protozoan plankton
Esthwaite (U.K., Cumbria): 974
juvenile fish
Gebel Aulia Reservoir (Sudan): 713
penaeid shrimp
from Arabian Gulf to Iraq: 1486

**Millepora**
*complanata*
ampullae and medusae
ultrastructure: 991

**Mine drainage**
copper location
in *Plectrocnemia conspersa* larvae: 381
effect on trout and invertebrates: 1586

**Mine lakes**
water quality and plankton periodicity: 46

**Mineralisation**
aminoacids by bacteria: 1160
effect on organic phosphorus: 681
generation of inorganic phosphorus: 883
organic phosphorus
by alkaline phosphatase activity: 1234
water
diatom succession: 1475

**Mineralogy**
fluvial sediments: 1435

**Mining**
clay discharges into streams
effect on optical properties and epilithon: 389

**Mirogrex**
*terraesanctae*
biomass and growth: 961
feeding habits: 85
larvae
feeding habits: 83

**Mitigation**
of acid stress
effect of liming: 407

**Mitochondria**
epidermal vs muscular
*Halicryptus spinulosus*
effect of hydrogen sulphide: 823

**Mitochondrial DNA**
*Brachionus plicatilis*: 896

**Mitosis**
in isolated tentacles
*Aurelia* scyphistomae
polyp regeneration: 984

**Mixing regime**
effect on algal photosynthesis
Laboratory Scale Enclosures: 929

**Mixing**
24-h dynamics
effect on nitrogen uptake by phytoplankton: 1777
between estuarine and offshore waters
effect of trapped water: 555
built-in jetting of input water
London reservoirs (U.K.): 457
by storm
effect on phytoplankton community
Lake Balaton (Hungary): 1288
effect on phytoplankton seasonal succession: 903

**Mixis**
*Brachionus plicatilis* resting eggs
effect of incubation and preservation: 691

**Mixoploidy**
*Dugesia japonica japonica*: 783
*Polycelis auriculata*: 1695

**Mixotrophy**
cf. *Ochromonas*
in relation to disappearance of diatoms
Hjarbaek Fjord (Denmark): 1270

**Mobilization**
heavy metals: 260

**Modelling**
bioenergetics
*Coregonus albula*: 741
cadmium and copper accumulation
*Mytilus edulis*: 718
competition between phytoplankton
and cyanobacteria: 889
conditional stability constants
for copper (II): 613

coupling of phytoplankton and detritus: 630
decomposition dynamics of *Spartina*: 1359
depth-time distribution of detritus: 1458
ecological impact of acidification: 1813
ecological models in hydrobiology: 854
equilibria in freshwater ecosystems: 1518
erosional process: 405
estuarine sediment transport: 62
feeding behaviour of *Daphnia*: 728
fine-grained sediments
resuspension, deposition and transport: 1886
food webs: 91
functional-form in seaweed culture: 710
*Gracilaria* growth in outdoor culture: 563
growth of *Artemia franciscana* cultures: 9
growth rate in freshwater algae: 384
growth of *Esox lucius*, *Stizostedion lucioperca* and *Silurus glanis*: 1376
*Hydra* body size and bud size
in relation to food particle: 1590
hydrology and phosphorus dynamics: 1747
light-limited algal growth in lakes: 1433
light-limited growth in *Prochlorothrix*: 633
mass balance
phosphorus: 564
nitrogen flow
*Brachionus*: 1217
nature of outflows from estuaries: 992
phosphorus cycle: 822
phosphorus loads
in relation to eutrophication: 1259
photosynthesis
dynamic vs static models: 1294
post-OECD eutrophication: 628
resuspension of solids: 927
sediment transport: 179
sediment-mixing: 867
total phosphorus balances: 1749
uptake and depuration of chemicals by fish: 1102
water column feeding
*Mertensia ovum*: 1669
water exchange between bay and large lake: 1781

**Moina**
*macrocopa*
fecundity, reproduction growth and
in realion to algal food type: 1076
*weismanni*
from Central Europe: 790

**Molecular biology**
*Laminaria* taxonomy: 159

**Molecular weight distribution**
agar fraction
from *Gracilaria dura*: 1210

**Mollusca**
*Anodonta cygnea*
filtration activity
effect of copper and lead: 1482
*Cerastoderma edule*
microgrowth bands
use in *in situ* field bioassays: 652
colonisation by *Littorina saxatilis*: 841
*Corbicula fluminea*
growth and overwintering survival
St. Clair River (USA, Michigan): 559
*Dreissena polymorpha*
biological filter: 1400
freshwater snails
taxonomy and distribution
Namibia and Botswana: 236
*Littorina littorea* and *L. saxatilis*
mating behaviour: 1513
*Littorina mariae*
grazing on epiphytes
effect on *Fucus* community structure: 1845
*Littorina saxatilis*-complex
hybridization: 1810
*Littorina*
biochemical genetic variation: 1809
littorinid snails
feeding behaviour: 1251
*Ostrea puelchana*
reproductive strategies: 1171
predation by waterfowl: 1636
*Scrobicularia plana*
metal accumulation: 297
snail and bivalve populations
lakes in eastern France: 1187

**Monitoring**
benthos biology
Tees bay and Tees estuary (N.E. England): 1568
heavy metals
by *Enteromorpha*: 1514
phytoplankton seasonality
Ohio River and Kentucky tributaries (USA): 1330
water quality: 1644

**Monoamines**
quantification
in *Hydra magnipapillata*: 1677

**Monoclonal antibodies**
*Phagocata vivida*
tool in regeneration studies: 1570
*Dugesia tigrina*: 1455

**Monod's formula**
bacterial and algal growth: 628

**Monoecious**
*Gelidium vagum*: 1123

**Monospilus**
*dispar*
headshield SEM: 1077

**Monsoon winds**
effect on seasonal variation and abundance
*Rastrelliger kanagurta*
Zanzibar coast (East Africa): 1216

**Morphogenesis**
body muscle fibers
*Enchytraeus minutus*: 966
*Convoluta psammophila* embryos: 526
Hydrozoa
evolutionary implications: 129
nematocysts
*Halammohydra intermedia*: 316
*Scutellidium hippolytes* nauplii: 375
*Thalestris longimana*: 374
Tisbidimorpha
copepodid development: 373

**Morphogenetic factor**
effect on development
*Hydractinia echinata* planulae: 1350

**Morphology**
*Acanthocyclops montana* n.sp.: 1404
*Adoncholaimus papillatus*: 577
*Alona sketi* n.sp.: 216
*Anabaena circinalis*
seasonal variation: 1096
Antarctic Amphipoda
comparison of foregut: 328
*Antichthomysis notidana* n.g.n.sp.: 516
*Anuraeopsis miraclei* n. sp.: 919
*Bathyepsilonema anulosum* n. sp.: 1771
*Batracobdelloides tricarinata*: 1276
*Brachionus moronensis* n.sp.: 936
*Brachionus postcurvatrus* n.sp.: 936
*Brachionus urceolaris reductispinis* n.ssp.: 936
*Branchinecta granulosa*: 327
*Branchipus cortesi* n.sp.: 38
*Bryocamptus pilosus* n.sp.: 540
*Bulinus*
host of *Schistosoma intercalatum*: 235
*Chaetocladius algericus* n.sp.: 1180
*Colombodiaptomus brandorffi* n.gen.n.sp.: 600
*Colombodiaptomus brandorffi pilosa* n.ssp.: 600
cystocarp variability
*Gelidium* vs *Pterocladia*: 1498
*Daphnia (Ctenodaphnia) hispanica* n.sp.: 622
*Daphnia pulicaria*
filtering comb and third thoracic limb: 1355
*Daphniopsis quadrangulus* n. sp.: 1552
*Desmoscolex* n.spp. 1607
*Diacyclops languidoides*: 1404
*Diaphanosoma celebensis*: 914
*Dina n.spp.*: 1585
*Dipleuchlanis ornata* n.sp.: 1546
*Diplopeltula* n. spp. : 1779
*Drunella karia* n. sp. nymph: 882
*Entacmaea medusivora* n.sp.: 509
*Euchlanis semicarinata* n.sp.: 1546
for amphipod swimming
methods: 202
*Fukaurahydra anthoformis: 1872*
*Hataia parva*: 1872
*Ilyocryptus paranaensis* n.sp.: 1291
*Ilyocryptus samsuni* n. sp.: 682
*Ingolfiella canariensis* n. sp.: 1787
*Itura deridderae* n.sp.: 1546
*Lecane* n.spp.: 1546
Lecithoepitheliata: 1711
*Lepadella* n.spp.: 1546
*Leptepsilonema richardi* n. sp.: 1771
*Lophocharis kutikovae* n. sp.: 1146
*Lophocharis turanica* n. sp.: 1146
*Mesopodopsis* spp.: 1860
*Moina weismanni*: 790
mouthpart deformities in *Procladius*: 413
nematocysts
*Pelagia noctiluca* vs *Rhizostoma pulmo*: 77
*Neoboeckella loffleri* n. gen. n. sp.: 120
*Onychogomphus* spp. larvae: 453
osmoregulatory organs
Cladocera: 26
*Paracilicaea keijii* n. sp.: 828
*Paralabidocera antarctica* larvae: 1686
*Phallodrilus n. spp*: 1449
photoreceptors
free-living platyhelminths
review: 1620
*Phyllodiaptomus blanci* larvae: 1396
*Phyllodiaptomus sasikumari* n.sp.: 1398
planarians
comparison of visual systems: 935
resting eggs
Anostraca, Notostraca and Spinicaudata: 1701
rotifer mastaxes: 1064
rotifer trophi preparation
method for SEM study: 1494
Rotifera from Turkey: 1547
*Samuraia tabularasa* n.gen.n.sp.: 1051
*Sclerocypris tuberculata* male: 1071
*Smittia durandae* n.sp.: 1180
spermatozeugmata
Tubificidae: 522
spermatozoa
scleractinians: 1646
*Squatinella lunata* n.sp.: 1546
*Trichocerca bicuspes*: 1245
*Trichocerca kostei* n.sp.: 1546
variation
*Bosmina (Eubosmina)*: 764
*Kellicottia longispina*: 468
*Streptocephalus torvicornis*: 452
*Viscosia erasmi* n.sp.: 577

**Morphometry**
changes
*Eubosmina* history
Lake Mondsee (Upper Austria): 1224
data
for sediment sampling evaluation: 537
in relation to fish yields
Lake Balaton (Hungary): 171

in relation to light climate
Wolderwijd (The Netherlands): 139
Lake of Banyoles (NE-Spain)
by new bathymetry: 1165
Lake Patzcuaro (Mexico): 1717
relation with nutrient cycling and trophic state
Baltic Proper: 1801

**Mortality**
bacteria
oligo- and eutrophic waters: 162
*Brachionus angularis*
effect of temperature: 1807
*Egeria radiata*: 1174
*Lates niloticus: 1264*
*Oreochromis niloticus*: 609, 1264
*Pharyngochromis darlingi*: 795
*Pseudocrenilabrus philander*: 795
rates
*Thymallus arcticus*: 270

**Mosquito larvae**
breeding
irrigation canals and rice paddies: 1214
mortality
role of *Bacillus*: 99
predation
by *Mesostoma* spp.: 177

**Mosses**
chironomid communities
seasonal dynamics
Breitenbach stream (Germany): 1246
*Fontinalis neo-mexicana*
effect on community composition: 242
impact on production and decomposition
Mekkojärvi Lake (Finland): 862

**Motor units**
skeletal muscles
Rotifera: 321

**Mougeotia**
tolerance to high light intensity
and nitrogen limitation: 1258

**Moulting**
cycle
talitrid amphipods
in relation to copper and zinc: 1816

**Mountain streams**
Appalachian Mountain stream
drift and benthos
impact of insecticidal treatmemt: 1799
Buckhorn Creek (USA, Colorado)
up- and downstream movements
of aquatic invertebrates: 141
Middle Fork of Cosumnes River (USA)
macroinvertebrate drift
effect of long pools: 1072
Swartboskloof stream (South Africa)
effect of fire on water chemistry: 227
Window Stream (South Africa)
allochthonous input and retention: 1650
leaf breakdown
influence of different litter bag designs: 1651

**Movements**
spermatozoa
freshwater triclads: 806
*Nephelopsis obscura*
effect of dissolved oxygen regimes: 388

**Mud blankets**
Laholmsbukten embayment
Kattegat Sea (Sweden)
source and sink for nutrients: 538

**Mudflats**
Cariboo Plateau (Canada, British Columbia)
calcium precipitation and brine evolution: 1407

**Mullidae**
trophic relationships with decapod crustaceans
eastern Mediterranean: 625

**Multi-generation**
*Brachionus calyciflorus*
effect of pH: 1148

**Multi-trophic assay**
ecosystem health: 1195

**Multidisciplinary research**
Water Quality Research Loosdrecht Lakes: 1755

**Multiple regression analysis**
past salinity and ionic composition: 1461
phytoplanktonic particulate phosphorus: 861

**Multispecies testing**
hazard prediction: 253

**Multivariate analysis**
growth requirements
phytoplankton community: 1761
impact of pollution
on phytoplankton community: 619
macrofaunal community types: 1767
physicalchemical variables
rivers of Northeast Scotland: 136
seasonality
river phytoplankton: 1330
sediment toxicity: 18
snail and bivalve populations
physical-chemical conditions: 1187
spatial distributional patterns
macroinvertebrates: 345
water chemistry
diatom assemblages: 1555

**Muscles**
body wall structure

oligochaetes: 470
development
*Enchytraeus minutus*: 966
organization and differentiation
*Macrostomum*: 1428
polyp and strobila
*Atorella japonica*
ultrastructure: 1087
T-system
enchytraeids and lumbriculids: 471
ultrastructure
enchytraeids: 1739
Rotifera
innervation: 321

**Mussel**
culture
impact of biodeposition
on biogeochemical fluxes: 117
deposits
degradation rate
Gulf of Gos (France): 657
*Mytilus galloprovincialis*
turbellarian infection: 1211
growth and condition
as function of food source: 1597
valve movement response
tool in biological monitoring: 923

**Mutants**
*Gelidium vagum*:1123, 1123

**Mutualism**
*Antipathes fiordensis*
and *Astrobrachion constrictum*: 650

**Myoepithelial cell**
Anthozoa
structure and functional adaptation: 768

**Mysidacea**
*Antichthomysis notidana* n.g.n.sp.
southeastern coast of Tasmania: 516
*Mesopodopsis aegyptia* n. sp.
Mediterranean: 1860
*Mesopodopsis tropicalis* n.sp.
W-Africa: 1860
*Mesopodopsis wooldridgei* n.sp.
South Africa: 1860
*Neomysis integer*
excretion and respiration rates
effect of temperature, sex and starvation: 1820
*Neomysis intermedia*
food source evaluation: 1714
*Neomysis mercedis*
life history and production: 341
*Tenagomysis tasmaniae*
*Anisomysis mixta australis*
*Paramesopodopsis rufa*
population dynamics: 517
*Spelaeomysis cochinensis* n.sp.
India: 1301

**Mytilus**
*edulis*
cadmium and copper accumulation: 718
tissue residue chemistry and energetics
use in pollution assessment: 1836
valve movement response
tool in biological monitoring: 923

**n-3 fatty acids**
kinetics
in *Brachionus plicatilis*: 1271

**N-$NH_4$ uptake**
by *Chondrus crispus*: 44

**$N_2$ fixation**
papyrus roots: 1215

**$^{15}N$**
ammonium and nitrate flux: 430
nanomolar-nitrate determination: 1588
nitrogen cycling: 410

**N:P ratio**
seasonal variability
eutrophic lakes (Canada, Manitoba): 107
effect of spring phytoplankton bloom
Lake Erken (Sweden): 1336

**Na-alginate**
enzymatic degradation
by marine fungi: 1517

**Naididae**
meiobenthos
relationship with eutrophication
Lake Päijänne (Finland): 1504
*Nais*
productivity
intrinsic and extrinsic variables: 857
*Paranais*
taxonomy and biogeography
Jiaozhou Bay (China): 491

**Nannochloropsis**
as food to *Brachionus plicatilis*
intensive chemostat cultures: 816

**Nanomolar range**
nitrate uptake
by *Phaeodactylum tricornutum*
measurement: 1383
nitrate determination
$^{15}N$ methodology: 1588

**Nanoplankton**
abundance and distribution
Abra of Bilbao vs adjacent shelf waters (Spain): 1279
biomass and photosynthesis
Canadian Shield lakes: 947
grazing by cladocerans: 391
growth and production
Bay of Villefranche sur Mer (N.W. Mediterranean): 1564
succession
Lake Volvi (Greece, Macedonia): 1185

**Napoleonic Wars**
increased land tillage
heavy metal pollution
Llangorse Lake (U.K., Wales): 851

**Natural selections**
life history traits
river invertebrates: 946

**Nauplii**
*Scutellidium hippolytes*
development: 375
*Thalestris longimana*
stage I: 374

**Navigation**
suspended sediment
effect on primary productivity: 1197

**Needs**
of environmental management
importance of bioassays
overview: 532

**Nematocera**
epiphytic Chironomidae
chalk streams: 1345

**Nematocyst**
*Calliactis parasitica* and *Aiptasia mutabilis*
discharge
effect of trypsin: 1485
*Chironex fleckeri*
envenomation process
mechanism of discharge: 486
development
siphonophore *Rosacea*: 1583
*Fukaurahydra anthoformis* and *Hataia parva*: 1872
*Hydra vulgaris*
spatial distribution of cations: 606
sp.
development of cytoskeleton: 1519
morphology, distribution and function
*Halocordyle disticha*: 1283
morphology
*Pelagia noctiluca* vs *Rhizostoma pulmo*: 77
nudibranchs
discharge
effect of test fluids: 654
sea anemones
terminology
historical review: 489
Zoantharia
synopsis of 'aggression': 1848

**Nematoda**
*Actinonema grafi* n.sp.: 833
*Adoncholaimus papillatus*
redescription: 577
associations and distribution
Rift Valley lakes (Ethiopia): 1728
Bathyepsilonema anulosum n.sp.: 1771
*Desmodora pilosa*: 833

redescription: 833
*Desmoscolex abyssorum*
redescription: 1607
*Desmoscolex coronatus* n.sp.: 1607
*Desmoscolex decraemerae* n.sp.: 1607
*Desmoscolex macrophasmata*
redescription: 1607
*Desmoscolex membranifer* n.sp.: 1607
*Desmoscolex parabyssorum* n.sp.: 1607
*Desmoscolex variabilis* n.sp.: 1607
*Diplopeltis bathmannii* n.sp.: 833
*Dipolpeltoides linkei* n.sp.: 833
*Diplopeltula belgica* n.sp.: 1779
*Diplopeltula curta* n.sp.: 1779
*Diplopeltula indica*: 1779
*Diplopeltula nellyae* n.sp.: 1779
*Diplopeltula pulchra* n.sp.: 1779
*Diplopeltula pumila* n.sp.: 1779
*Diplopeltula striolata* n.sp.: 1779
*Leptepsilonema richardi*: 1771
*Leptolaimus meyer-reili* n.sp.: 833
*Pararaeolaimus rumohri* n.sp.: 833
population density and distribution
mangrove mudflat (Australia): 1237
*Southerniella nojii* n.sp.: 833
species distribution
effect of ionic composition
in springs: 1263
*Tarvaia heegeri* n.sp.: 833
*Theristus altenbachi* n.sp.: 833
*Tricoma (Quadricoma) tripapillata* n.sp.
*Tricoma (Tricoma) apophysis* n.sp.: 1608
*Tricoma (Tricoma) corsicana* n.sp.: 1608
*Tricoma (Tricoma) duopapillata* n.sp.: 1608
*Tricoma (Tricoma) latispicula* n.sp.: 1608
*Tricoma (Tricoma) pygmaea* n.sp.: 1608
*Tricoma (Tricoma) setosa* n.sp.: 1608
*Tricoma (Tricoma) vincxae* n.sp.: 1608
*Viscosia erasmi* n.sp.: 577

**Neoblasts**
isolation of specific monoclocal antibodies
*Dugesia tigrina*: 1455
pharyngeal regeneration
*Bipalium kewensse*: 1571
redifferentiation of penis
*Bdellocephala brunnea*: 938

**Neoboeckella n.gen.**
*loffleri* n.sp.
Bolivia: 120

**Neobradyidae**
*Antarcticobradya tenuis*: 1529

**Neodiaptomus**
*lindbergi*
larval stages
laboratory rearing: 421
*schmackeri*
redescription: 160
synomy with *N. strigilipes* and *N. handeli*: 160
synonymy of some spp.
Indian subcontinent: 1397

**Neomaraenobiotus**
*laurentiacus* n.gen. n.sp.: 541

**Neomysis**
*integer*
rate of excretion and respiration
effect of temperature, sex and starvation: 1820
*intermedia*
food source evaluation
use of stable nitrogen isotope: 1714
*mercedis*
life history and production
Kennedy and Muriel Lakes (Canada): 341
sp.
predation effects
comparison with *Chaoborus*: 705

**Neoplasia**
in fish
effect of sediment contaminants
Detroit River (USA, Michigan): 1019
induction
effect of carcinogen
in *Bdellocephala brunnea*: 782

**Neotropical**
altitudinal zonation
Ephemeroptera
subtropical river (Argentina): 437
*Branchinecta granulosa*
redescription: 327
fauna
see different groups
*Ilyocryptus elegans* n.sp.
Argentina: 1292
*Lepadella (Xenolepadella) curvicaudata* n.sp.
Brazil: 1731

**Nephelopsis**
*obscura*
feeding and vertical distribution
effect of dissolved oxygen regimes: 388

**Nereis**
*diversicolor*
metal accumulation: 297
sp.
bioturbation
effect on phosphate flux: 317

**Nerve**
cell
-specific monoclonal antibody production
in *Phagocata vivida*: 1570
differentiation
effect of PAF: 1350
net
in sea anemones

response to chemical and mechanical stimuli: 1112
plexus
polyp and strobila
*Atorella japonica*
ultrastructure: 1087

**Nervous system**
catecholamine distribution
microturbellarians: 1412
*Convoluta psammophila* embryos
ultrastructure: 526
Turbellaria: 838
ultrastructure
proseriates vs lower flatworms: 1411

**Nesting behaviour**
*Tilapia zillii*
effect of environmental factors
Lake Kinneret: 243

**Net microbial production**
total phosphorus concentration
equation: 983

**Net plankton**
control by small- vs large-bodied cladocerans
enclosure experiment: 391

**Net primary production**
Irish moss
eastern Canada: 1366
stream periphyton
use of portable chamber: 574
*Nymphaea tetragona*: 939

**Neubauer phytoassay**
sediment contamination: 17

**Neuron**
homology
higher vs lower turbellarians: 838
production of peptides
in coelenterates
review: 664

**Neuropeptide**
SALMF-amide
immunoreactivity
in *Macrostomum* nervous system: 1406
in coelenterates
review: 664

**Neurotoxicity**
to planarians: 156

**Neurotransmitters**
peptides
in Hydrozoa: 1630

**Neuston**
bacteria
diel cycle: 1041

**Neutral sugars**
in fucose-containing polysaccharides
brown algae: 1241
of particulate matter
seasonal changes: 1152

**Neutralization**
influence on algal microfossil assemblages: 426

**Neutron activation analysis**
halogen determination: 1053
metal concentrations in sediment and biota: 364

**New ponds**
colonisation
by opportunist rotifers: 1354

**New records**
see Taxonomy
phytoplankton
Ogelube Lake (Nigeria): 173

**New taxa**
Amphipoda
*Ingolfiella canariensis* n.sp.: 1787
*Pseudoniphargus candelariae* n.sp.: 1490
*Rhipidogammarus rheophilus* n.sp.: 1655
Anostraca
*Branchinecta belki* n.sp.: 1032
*Branchipus cortesi* n.sp.: 38
*Branchipus serbicus* n.sp.: 1334
Ciliophora
*Paracolpidium* n.gen.: 587
Cnidaria
*Entacmaea medusivora* n.sp.: 509
*Samuraia tabularasa* n.gen. n.sp.: 1051
*Stephanoscyphistoma* n.gen.: 825
Copepoda
*Acanthocyclops montana* n.sp.: 1404
*Arctodiaptomus (Rhabdodiaptomus) michaeli* n.sp.: 1395
*Bathycamptus eckmani* n.gen. n.sp.: 798
*Boreolimella* n.gen.: 798
*Bryocamptus pilosus* n.sp.: 540
*Carolinicola* n.gen.: 798
*Colombodiaptomus brandorffi* n.gen. n.sp.: 600
*Colombodiaptomus brandorffi pilosa* n.ssp.: 600
*Eodiaptomus shihi* n.sp.: 1394
*Halicyclops hurlberti* n.sp.: 1443
*Maraenobiotus candensis* n.sp.: 541
*Neoboeckella loffleri* n.gen. n.sp.: 120
*Neomaraenobiotus laurentiacus* n.gen.n.sp.:541
*Odontomolgus pumilus* n.sp: 794
*Paramolgus ampullaceus* n.sp.: 794
*Perucamptus* n.gen.: 798
*Phyllodiaptomus sasikumari* n.sp.: 1398
*Pusillargillus* n.gen.: 798
*Sociellus torus* n.gen., n.sp.: 794
*Tropodiaptomus asimi* n.sp.: 454
Cladocera

*Alona hercegovinae* n.sp.: 215
*Alona sketi* n.sp.: 216
*Celsinotum* n.gen.: 561
*Celsinotum parooensis* n.sp.: 561
*Celsinotum hypsilophum* n.sp.: 561
*Celsinotum platamodes* n.sp.: 561
*Daphnia (Ctenodaphnia) hispanica* n.sp.: 622
*Daphnia similoides* n.sp.: 789
*Daphniopsis quadrangulus* n.sp.: 1552
*Ilyocryptus elegans* n.sp.: 1292
*Ilyocryptus paranaensis* n.sp.: 1291
*Ilyocryptus samsuni* n.sp.: 682
Desmidaceae
*Staurastrum brachiatum* Ralfs var. *bicorne* n.var.: 1254
*Staurastrum dilatatum* var. *thomassonii n.*var.: 1423
*Staurastrum hystrix* var. *granulatum* n.var.: 1424
*Staurastrum thomassonii* n.sp.: 1254
*Xanthidium antilopaeum* Kütz. f. *bimaculatum* n.f.: 1254
Diatoms
*Amphora tanganyikae* n.sp.: 258
Diptera
*Chaetocladius algericus* n.sp.: 1180
*Cricotopus (Cricotopus) nevadensis n.*sp.: 277
*Rheotanytarsus thailandensis n.*sp.: 1179
*Smittia durandae* n.sp.: 1180
*Tanytarsus thaicus* n.sp.: 1179
Ephemeroptera
*Drunella karia* n.sp.: 882
Hirudinea
*Dina eturpshem* n.sp.: 1585
*Dina krilata* n.sp.: 1585
*Dina svilesta* n.sp.: 1585
Isopoda
*Paracilicaea keijii* n.sp.: 828
Mysidacea
*Antichthomysis notidana* n.gen.n.sp.: 516
*Mesopodopsis aegyptia* n.sp.: 1860
*Mesopodopsis tropicalis* n.sp.: 1860
*Mesopodopsis wooldridgei* n.sp.: 1860
*Spelaeomysis cochinensis* n.sp.: 1301
Nematoda
*Actinonema grafi* n.sp.: 833
*Bathyepsilonema anulosum* n.sp.: 1771
*Desmoscolex coronatus* n.sp.: 1607
*Desmoscolex decraemerae* n.sp.: 1607
*Desmoscolex parabyssorum* n.sp.: 1607
*Desmoscolex membranifer* n.sp.: 1607
*Desmoscolex variabilis* n.sp.: 1607
*Diplopeltis bathmanni* n.sp.: 833
*Dipolpeltoides linkei* n.sp.: 833
*Diplopeltula belgica* n.sp.: 1779
*Diplopeltula curta* n.sp.: 1779
*Diplopeltula nellyae* n.sp.: 1779
*Diplopeltula pulchra* n.sp.: 1779
*Diplopeltula pumila* n.sp.: 1779
*Diplopeltula striolata* n.sp.: 1779
*Leptepsilonema richardi* n.sp.: 1771
*Leptolaimus meyer-reili* n.sp.: 833
*Pararaeolaimus rumohri* n.sp.: 833
*Southerniella nojii* n.sp.: 833
*Tarvaia heegeri* n.sp.: 833
*Theristus altenbachi* n.sp.: 833
*Tricoma (Quadricoma) tripapillata* n.sp.: 1608
*Tricoma (Tricoma) apophysis* n.sp.: 1608
*Tricoma (Tricoma) corsicana* n.sp.: 1608
*Tricoma (Tricoma) duopapillata* n.sp.: 1608
*Tricoma (Tricoma) latispicula* n.sp.: 1608
*Tricoma (Tricoma) pygmaea* n.sp.: 1608
*Tricoma (Tricoma) setosa* n.sp.: 1608
*Tricoma (Tricoma) vincxae* n.sp.: 1608
*viscosia erasmi* n.sp.: 577
Nemertea
*Amniclineus zhujiangensis* n.gen. n.sp.: 612
Oligochaeta
*Phallodrilus crypticus* n.sp.: 1449
*Phallodrilus labouichensis* n.sp.: 1449
*Phallodrilus subterraneus* n.sp.: 1449
Rotifera
*Anuraeopsis miraclei* n.sp.: 919
*Branchionus moronensis* n.sp.: 936
*Branchionus postrcurvatus* n.sp.: 936
*Branchionus urceolaris reductispinis* n.sp.: 936
*Dipleuchlanis ornata* n.sp.: 1546
*Euchlanis semicarinata* n.sp.: 1546
*Itura deridderae* n.sp.: 1546
*Lecane dumonti* n.sp.: 1546
*Lecane nigeriensis* n.sp.: 1546
*Lecane nwadiaroi* n.sp.: 1546
*Lecane simonneae* n.sp.: 1546
*Lecane stichoclysta* n.sp.: 1546
*Lecane sylviae* n.sp.: 1546
*Lepadella berzinsi* n.sp.: 1546
*Lepadella costatoides* n.sp.: 1547
*Lepadella discoidea* n.sp.: 1546
*Lepadella (Xenolepadella) curvicaudata* n.sp.: 1731
*Lophocharis kutikovae* n.sp.: 1146
*Lophocharis turanica* n.sp.: 1146
*Squatinella lunata* n.sp.: 1546
*Trichocerca kostei* n.sp.: 1546
Teleostei
*Callionymus (Calliurichthys) marquesensis* n.sp.: 562
*Callionymus (Spinicapitichthys) obscurus* n.sp.: 562
Temnocephaloidea
*Decadidymus gulosus* n.gen. n.sp.: 266

**Niche**
overlap
between herbivorous cladocerans
role of food quality
and habitat homogeneity: 750
in fish fauna
Sainte Croix (France, Provence): 238
pre-emption
among benthic macrophytes
Little River (USA, North Carolina): 498

**Nickel**
accumulation
in drifting macrophytes: 1055
sorption and speciation
in sediments: 1476

**Niphargus**
population variation
in sediments
karst outflow: 1080

**Nitrate**
content
South African mountain stream
effect of fire: 227
disappearance
effect of temperature and organic matter
sediment-water systems: 477
flux
effect of phosphate enrichment: 430
level
ground water
riparian zone
Oak Ridges moraine (Canada, Ontario): 752
tropical stream
volcanic landscape: 1365
conduit vs diffuse springs
karst region (USA, Minnesota): 113
nanomolar uptake
direct measurement
by *Phaeodactylum tricornutum*: 1383
reductase activity
in freshwater phytoplankton
influence of environmental factors: 1869
reduction
effect of oxygen: 193
retention by woody debris
in disturbed streams: 75
uptake
by phytoplankton: 1777
measurement
$^{15}N$ methodology: 1588

**Nitrification**
depth
enhancement by nitrate
sediment/water microcosms: 338
fluxes
sediment-water interface: 1533
rate
as indicator of toxicological quality: 199

**Nitrogen**
addition
effect on phyto- and zooplankton
community structure: 1272
algal growth potential tests
canals and lakes (Netherlands): 902
budget
*Brachionus plicatilis*: 1217
profiles
Skagerrak cores (NE North Sea): 1841
concentration and export
Kuparuk River (North Slope, Alaska): 1329
content
*Brachionus plicatilis*: 1882
*Ceratophyllum demersum* litter: 157
covariation with phytoplankton
Lake Liddell (Australia): 1463
cycling
Ebro vs Rhône Deltas: 544
Laholmsbukten embayment
Kattegat Sea (Sweden): 538
lakes: 545
role of macrophytes: 1287
role of *Vaucheria dichotoma*
Lake Mikolajskie (Poland): 1286
sediment-water interactions
Lake Sobygård (Denmark): 1617
excretion
*Euchlanis*: 677
fixation
by *Lyngbya wollei*: 1338
eutrophic lakes (Canada, Manitoba): 107
Louisiana Gulf Coast marshes (USA): 410
flux
at sediment-water interface
oyster-bed
*in situ* measurement: 201
from gull excreta: 1357
in relation to microphytobenthic communities
interstitial waters: 1418
level
relationship with alkaline phoshatase activity:
529
effect of flushing
Veluwemeer (The Netherlands): 814
effect of phytoplankton blooms
Thau Lagoon (France): 1340
mineralization
from *Eichhornia crassipes* detritus: 1392
nutrition
*Gracilaria tikvahiae*-model
seaweed culture: 709
organic compounds
uptake by phytoplankton: 312
recently formed African reservoir: 1441
reduction
by algal mats
agricultural streams: 249
regeneration
from seston in lake sediments: 47
sediment enrichment
by diffusion enrichment technique: 429
uptake and metabolism
phytoplankton: 1777

**Nitrogenous substances**
transformation
at sediment-water interface
review: 383

**Nitrous oxide**
sediment-water interface

aerobic and anaerobic conditions: 1533

**NMR spectroscopy**
agaro- and carrageenophytes
differentiation: 639

**Nodularia**
*spumigena*
bloom
isolation of strains and toxins: 1581
magnitude and long-term periodicity
from Landsat imagery: 583
hepatotoxic bloom: 1582

**Noemacheilus**
*barbatulus*
interaction with *Cottus gobio*
experiments: 1823

**Nomenclature**
problems
sea anemone nematocysts: 489
within Coronatae: 825

**Nori**
cultivation
North America: 1190

**North Inlet** (USA, South Carolina)
subtidal macrobenthos: 1556

**North temperate**
rivers of Northeast Scotland
physical-chemical characters: 136

**Northern pike**
predation on planktivorous fish
shallow eutrophic lakes (The Netherlands): 663

**Nothogenia**
*fastigiata*
isolation of sulphated galactants: 692

**Notholca spp.**
phylogenetic relationships: 1800
from Andes: 769

**Notostraca**
epizootic algae and Protozoa: 1700
from Maltese Islands (central Mediterranean): 963
*Lepidurus couesii*
egg hatching
effect of temperature: 712
resting eggs
morphology: 1701
species distribution
Mexico: 1031
temporary ponds
coexistence with Anostraca and Spinicaudata: 1699
*Triops australiensis*
biogeography (Australia): 1854
*Triops granarius*
natural growth and reproduction: 1542
*Triops newberryi*
sex ratio
variation: 1509

**Nuclear power plant**
heated effluents
effect on *Laminaria* and *Pterygophora*
abundance: 1247
impact on water quality
Embalse del Rió III Reservoir (Argentina): 1061

**Nudibranch**
nematocysts
discharge
effect of test fluids: 654

**Numerical model**
resuspension
transport of fine-grained sediments: 1886

**Nursery habitat**
Forth estuary (Scotland)
for North Sea fishes: 480

**Nutrients**
addition
ecosystem control mechanism
Toolik Lake (USA, Alaska): 1257
effect on sediment chemistry of iron: 1662
balance
Loosdrecht lakes (The Netherlands): 487
benthic mineralization
tidal variability in water: 505
budget
bog drainage impact: 1012
Gamo Lagoon (Japan): 893
P and N contributions from gull excreta: 1357
content
diel cycle
impact of water renewal: 493
covariation with phytoplankton
Lake Liddell (Australia): 1463
cycling
biogenic silica
Lake Toolik (Alaska): 349
desert saline lake (Pyramid Lake, USA): 978
dissolved reactive phosphorus: 884
impact of mussels
Lake St. Clair (Canada/USA): 1220
phytoplankton dynamics
overview: 267
role of settling matter: 572
role of morphometry and sedimentation: 1801
diffusion
sediment-water interface: 164
dynamics
athalassic inland water lake: 588
pore waters in Dead Sea sediments: 1243

enrichment
benthic algal response: 273
benthic community response: 439
effect on algal biomass
and species dominance: 887
effect on chlorophyll*a* and phytoplankton: 356
effect on periphyton community structure: 1065
growth and reproductive response
in *Laminaria*: 1876
influence of *Rutilus rutilus:* 780
toxic dinoglagellate bloom: 496
fluxes
sediment-water interface
application of laboratory apparatus: 1533
impact of biodeposition: 117
levels
freshwaters and coastal waters (Ghana): 165
impact of *Coregonus*: 809
Lake Kariba (central Africa): 1033
surficial sediments
Lake Geneva (France/Switzerland): 1627
limitation
algae: 249, 848
*Asterionella formosa*: 105
estimation
by diffusion enrichment technique: 429
periphyton and phytoplankton: 1637
pico- and nanoplankton: 1817
*Rhodomonas lacustris*: 105
zooplankton
humic Lake Kjelsåsputten (Norway): 751
loading
drainage channel (Ebro Delta, Spain): 544
forest brooks
effects of clear-cutting and scarification: 22
Hollands Ankeveen lakes: 1772
in water quality management: 370
lakes in SW Friesland (The Netherlands): 1747, 1748
reduction for macrophyte recolonisation: 331
via run-off
Mondsee (Austria): 433
recycling
by zooplankton: 1668
regeneration
from bottom sediments: 102
from seston: 47
relationship
algal communities: 1468
diatoms and *Oscillatoria* spp.: 1010
eutrophication gradient: 6
biomanipulation
review: 635
concentration and stream discharge: 1108
plankton community: 441
primary production: 665, 892, 1001
release
from fish: 1687
from plant material: 982
from vegetation
effect on water quality: 941
remobilisation
Tiber estuary (Italy): 1293
removal rates
operation of Kis-Balaton reservoir (Hungary): 1671
retention
effect of woody debris: 75
seasonal changes
Tavropos Reservoir (central Greece): 1186
Thau Lagoon (France): 1340
sediment-water exchange
Roskilde Fjord (Denmark): 863
sensitivity of autotrophic picoplankton
Great Lakes: 1200
spatial distribution
coastal shelf and oceanic waters off Brazil: 217
in relation to salinity: 1003
storage
redistribution and net export: 305
uptake
by phytoplankton: 1826
influence of zooplankton: 431

**Nutrition**
*Chaetogaster limnaei limnaei*: 602
*Gracilaria tikvahiae*-model
for cultured seaweeds: 709
of test organism
bearing on toxicity results: 965

**Nutrional**
effect
freshwater *Chlorella*
on *Brachionus* growth: 759
status
microbes
PHB/PHFA ratios: 1238

**Nymphaea**
*tetragona*
production and life span: 939

**Oak**
leaves
breakdown rates: 371

**Objectives**
of environmental research and management
importance of bioassays
overview: 532

**Obligate parthenogenesis**
*Daphnia pulex*: 969

**Observational design**
water quality modelling
review: 889

**Ocean dumping**
control Act of Canada
results and progress of research work
review: 1689

**Oceania**
New Zealand
harvesting of macroalgae: 1521
macroalgal assemblages
structure, interactions and demography: 1520

**Oceania, Coasts**
Australian east coast
exoedicerotid amphipods
patterns of abundance: 847
southeastern coast of Tasmania
*Antichthomysis notidana* n.g.n.sp.: 516
west coast of Tasmania
Amphipoda, Talitridae
local distributions: 1425

**Oceania, Estuaries**
Murray River estuary (Australia)
nematode fauna: 1236
South Johnstone River estuary (Australia)
hydro-sedimentology: 62

**Oceania, Fjords**
New Zealands fjords
*Antipathes fiordensis* and *Astrobrachion constrictum*
mutualism: 650

**Oceania, Floodplains**
Island billabong in Magela Creek (Australia)
biochemistry and effect of heavy metals: 725

**Oceania, Islands**
Heron Island (Australia, Great Barrier Reef)
phosphorus metabolism: 1622
Orpheus Island (Great Barrier Reef)
*Protopalythoa* sp.
gametogenesis and spawning: 1474

**Oceania, Lakes**
Lake Grasmere (New Zealand, South Island)
stratigraphy of fossil Chironomidae: 1516
Lake Torrens (South Australia)
sedimentation
absolute dating: 1525
Alderfen Broad (New Zealand)
*Acanthocyclops robustus*
generation time: 368
Blue Lagoon and Lake Freshwater (Australia, Queensland)
physical-chemical features, phytoplankton: 1285
hypersaline lakes (Australia)
trace metal concentrations
surficial sediments: 1017
Lake Eyre South (south-central Australia)
diatom assemblage: 178
Lake Liddell (Australia, New South Wales)
phytoplankton ecology: 1463
Lake Rotoiti (New Zealand, North Island)
eutrophication process: 1778
playa lakes (Australia, arid zone)
geochemical evolution: 63

**Oceania, Mudflats**
Mokomoko Inlet (New Zealand)
*Gracilaria*
growth, density and reproduction: 1339
agar quality: 1339
temperate Australia
nematode density, diversity and distribution: 1237

**Oceania, Rivers**
Blackwood River and Glenelg River (Australia)
macroinvertebrates
longitudinal distribution: 1855
Bremer River (Australia)
temperature and dissolved oxygen profiles: 1644
Collie river (south-western Australia)
*Galaxias occidentalis* biology: 1315, 1316
La Trobe River (Australia, Victoria)
ecology
effects of pulp and paper mill effluents: 722
Lerderderg River (Australia, Victoria)
eucalypt leaf decomposition: 206
Murray-Darling River system (Australia)
*Alathyria jacksoni*
shape variation: 95
larval *Procladius paludicola*
mouthpart deformities: 1337
salinity tolerance of fish: 1847
Myrtle Creek (Australian Highlands)
phosphorus release studies: 726
Waitaki River (New Zealand)
siltation effects on epilithic periphyton: 645
Wakool River (Australia, New South Wales)
flow characteristics: 1560
Yarra River (Australia, Melbourne)
trace elements
in suspended particulate matter: 1577

**Oceania, Swamps**
Coral Creek (Australia)
hydrodynamics: 1861

**Oceanography**
*Rhodalia* distribution
implications: 1431

**Oceans**
Arctic
Barents Sea
predation by *Mertensia ovum*: 1669
Atlantic, North
biogeography of *Littorina*: 1403
marine plant harvesting
ecological impact: 1561
midwater hydro- and scyphozoan medusae: 968
Atlantic, Northeast
*Littorina saxatilis* vs *L. neglecta*
morphologic variation: 839
Atlantic, Northwest
*Fucus spiralis* vs *F. vesiculosus*
competitive interactions: 288
macroalgal assemblages
organization
role of disturbance: 290
Atlantic, Southeast
epipelagic siphonophores
vertical distribution: 1290
Atlantic, Southwest
*Rhodalia miranda*
distribution: 1431
Pacific
*Macrocystis* biogeography: 302
new spp. and new records of *Callionymus*: 562
Pacific, Eastern
organic matter productivity and cycling
role of bacterioplankton: 1621
Pacific, North
biogeography of *Littorina*: 1403
Pacific, Northeast
macroalgal assemblages
organization: 551
Pacific, off Baja California
seaweed harvesting
ecological impact: 108
Pacific (Western Caroline Islands
Palau Jellyfish Lake)
*Entacmaea medusivora* n.sp.: 509

**Ocelli**
fine structure and function
acoel flatworms: 1873

**Octanol**
effect on bioluminescence propagation
*Euphysa japonica* hydromedusae: 1025

**Octocorallia**
Xeniidae
reproduction and development: 130

**Octopus**
*joubini*
predation on *Dardanus* and *Pagurus* crabs: 232

**Odonata**
damselfly emergence
ponds in northern England: 658
*Enallagma civile* nymphs
predation rates and survivorship
effect of acidic pH: 641
larval foraging modes
effects of prey and interference: 844
morphology
*Onychogomphus* spp.: 453
*Platycnemis pennipes*
egg deposition rates and duration of oviposition: 1070

**Odontomolgus**
*pumilus* n.sp.: 794

**Oil**
in sediments
effect on *Hexagenia* nymphs distribution
Upper Great Lakes: 1524
-related substances
toxicity to biota
Detroit River (USA, Michigan): 1054

**Oligochaeta**
body wall
histochemistry: 470
*Branchiura sowerbyi*
experiment
with LAS-treated sediment: 278
*Chaetogaster limnaei limnaei*
histophysiology of digestion: 602
class
in subphylum Clitellata
review: 773
colonisation of gravel bar
Tombigbee River (USA, Mississippi): 166
density decline: 971
Enchytraeidae and Lumbriculidae
T-system in muscles: 471
Enchytraeidae
aquatic toxicity testing: 1452
*Enchytraeus minutus*
muscle development: 966
*Enchytraeus variatus*
breeding biology: 203
muscle fiber organizations
from West Florida (USA): 737
phylogeny: 324
taxonomic importance: 1739
evolution: 226
*Limnodrilus hoffmeisteri*
dispersal
via predation by *Erpobdella punctata*: 876
naidid and aeolosomatid meiobenthos
Lake Päijänne (Finland): 1504
*Nais*

productivity
intrinsic and extrinsic variables: 857
*Phallodrilus crypticus* n.sp.
*P. labouichensis* n.sp.
*P. subterraneus* n.sp.
from caves (Spain and France): 1449
size spectra reflecting physiographic disturbances
Ebro basin reservoirs (Spain ): 1391
trace element concentrations
relationship with sediment characteristics: 1477
Tubificidae
*Tubifex tubifex*
cohort culture: 1302
cyst formation: 54
spermatozeugmata
structural comparison: 522
tubificids
acute and chronic effects of surfactant: 279
allozymic variation: 1819
*Tubificoides amplivasatus*
population dynamics
Oresund (Denmark): 492
role
water quality management: 1768

**Oligotrophy**
bacterioplankton dynamics: 162
Boating Lake (Nigeria, Jos)
water quality and plankton periodicity: 46
Flathead Lake (USA, Montana)
ammonium and nitrate flux
effect of phosphate enrichment: 430
La Caldera (Spain, Sierra Nevada)
phyto- and zooplankton relationships: 274
Lake Chuzenji (Japan)
settling matter
characteristics and role in nutrient cycles: 572
Lake Mosvatn (Norway)
result of fish removal: 1493
Mediterranean, Northwest
transfers with eutrophic river Rhône: 1003
phsophorus uptake by plankton
influence of zooplankton: 431
planktonic desmids
seasonal periodicity
Grane Langso (Denmark): 1254
Sainte Croix (France, Provence)
fish fauna
habitat use patterns
and trophic interrelationships: 238
Trémies cave (France, Marseille)
allochthonous organic inputs: 530
nanomolar nitrate uptake
direct measurement
by *Phaeodactylum tricornutum*: 1383

**Olisthodiscus**
*luteus*
photosynthetic pigment composition
12:12 light:dark cycles: 970
cell cycle
in relation to 12:12 light:dark cycle: 138

**Omnivory**
*Acanthodiaptomus denticornis*: 953
detritus-consuming fish
diet description: 19
Rotifera
in young ponds: 1354

**Onikusa**
taxonomic problems: 1499

**Ontogenetic changes**
calanoid-cyclopoid-phytoplankton interactions
experiments: 1626

**Ontogeny**
rugose corals
principles
review: 510

**Onychogomphus**
*assimilis*
*lefebvrei*
*flexuosus*
larval morphology: 453

**Oocytes**
development
in Scyphomedusae: 78

**Oocytic atresia**
effect on fecundity estimates
in rabbit fish: 1253

**Oostegites**
structure
in amphipods: 1643

**Oötaxonomy**
Anostraca, Notostraca, Spinicaudata: 1701

**Open water interference refuges**
for herbivores
biomanipulation: 1558

**Ophiuroidea**
*Astrobrachion constrictum*
mutualism
with *Antipathes fiordensis*: 650

**Optical**
properties
Loosdrecht lakes (The Netherlands)
determination by remoting sensing: 409
chlorophyll specific cross sections
*Chlorella*
diurnal variation: 932

**Optimal recruitment**
fish stock
water quality management
Sulejow Reservoir (central Poland): 1883

**Oral appendages**
*Acanthodiaptomus denticornis*
morphology: 953

**Orchomene**
*plebs*
respiration: 1385

**Orconectes**
*neglectus*
temporal shifts in physical habitat: 640
*sanbornii sanbornii*
*virilis*
annual production
New River (USA, West Virginia): 1451

**Orders**
phylum Rotifera
phylogenetic relationships: 1800

**Ordination**
Oligochaeta: 1768
zoobenthos communites: 866

**Oreochromis**
*niloticus*
in Lake Victoria (Kenya)
evolution of fishery: 94
massive kills: 1264

**Organic carbon**
determination
*Argyrodiaptomus furcatus*: 1085
distribution
*Callichirus* burrows: 1765
effect on *Pontoporeia* density: 1596
fractions
quantitative relationships: 1377
remobilisation
Tiber estuary (Italy): 1293
turnover
Öre estuary (northern Sweden): 547
effect on temporal variability
in algal biomass and primary productivity: 123

**Organic load**
effect on biomass production and insect emergence
Albenche river (France): 543

**Organic matter**
accumulation
off Rhône River (France)
effect of plume front: 987
bacterial response
marine subantarctic area: 411
biogeochemistry
Lake Geneva (France/Switzerland): 1538
circulation
role of chironomids: 420
effect on denitrification
water-sediment systems: 477
filter-feeding
by Simuliidae vs Culicidae: 1073
processing
role of bacterial ectoenzymes: 307
productivity and cycling
eastern Pacific Ocean: 1621
reduction
role of silver carp
Netofa reservoirs (Israel): 988
relationship
with abundance of *Chironomus* larvae: 1492
with macroinvertebrates: 207
with phenols: 293
transport dynamics
Henry's Fork of the Snake River (USA, Idaho): 53
regulated rivers (USA, Montana): 1326

**Organic micropollutants**
in sediments
grain size correction procedures: 900
Linggi River drainage basin (Malaysia): 1506

**Organic phosphate**
in sediment: 393, 681
mineralization
alkaline phosphatase activity: 1234

**Organic pollution**
in aquatic ecosystems
continuous culture algal bioassays: 1416

**Organic substrates**
bacterial activity: 595

**Organic wastes**
utilization
by *Artemia*: 115

**Organobromine**
in Finnish waters: 1053

**Organochlorine**
in Finnish waters: 1053

**Oscillatoria**
*agardhii*
permanent bloom
Wolderwijd (The Netherlands): 139
*limnetica*
coupling to detritus: 630
growth efficiency: 632
primary production: 1434
*rubescens*
dominance
alkaline phosphatase activity: 529
spp.
nutrients and growth conditions: 1010
toxic blooms: 1582

**Osmolality**
of culture medium

effect on red seaweed development: 1438

**Osmoregulatory organs**
Cladocera
morphology: 26

**Ostracoda**
distribution patterns
effect of ion composition: 98
*Eucypris mareotica*:
*Heterocypris barbara*, *Prionocypris aragonica*
salinity tolerance: 1495
indirect effects on mosquito larvae: 99
microhabitat selection
in relation to predation and food: 1098
prey to siphonophores: 1369
*Sclerocypris tuberculata*
description of male: 1071
shell
Mg, Sr and Ca content
reconstruction of paleohydrochemistry: 45

**Ostreidae**
*Crassostrea cucullata*
ecomorphology: 1673
*Ostrea puelchana*
reproductive strategies: 1171

**Otolith**
age determination
*Galaxias occidentalis*: 1316
daily increment
*Coregonus lavaretus* larvae: 906

**Outplants**
Irish moss
eastern Canada: 1366

**Overfishing**
impact on fish stocks
Lakes Victoria and Kyoga: 937
of West African clam
Cross River system (Nigeria): 1174

**Overlap**
predator and prey: 1446, 1843

**Overwintering**
*Corbicula fluminea*: 559
habitat
Forth estuary (Scotland)
for North Sea fishes: 480

**Oviposition**
*Euchlanis dilatata*: 1805
*Platycnemis pennipes*: 1070
Plecoptera: 1893

**Oxbow lake**
Lagoa do Infernao (SP Brazil)
bacterial distribution in sediments: 558

**Oxygen consumption assay**
impact of sewage on activated sludge: 1410

**Oxygen**
consumption
amphipods: 1067
*Fundulus catenatus*: 1715
*Phoxinus erythrogaster*: 1715
oyster-bed sediment
sediment and seston below halocline: 649
demand
sediment metabolism: 1611
depletion
feeding of copepods: 950
dynamics
tropical fish ponds: 1691
effect on *Chironomus* larval density: 1492
effect on denitrification: 193
effect on distribution of microaerophiles: 523
effect on distribution of Rotifera: 1139
effect on *Gammarus* distribution: 1127
profiles
Bremer River (Australia): 1644
intertidal sediments
of Ria Formosa (Portugal): 233
refuges
for herbivores
biomanipulation: 1558
regime
freshwaters and coastal waters: 165
solubility
in Dead Sea brine: 1242
tolerance to low levels
*Brachionus plicatilis*: 495
transfer via air-water interface
recirculating experimental stream: 786

**Oxygenated carotenoids**
*Dunaliella*
mass culture: 1181

**Oxygenation**
burrows of *Callianassa subterranea*: 548

**Oxytricha**
*bifaria*
reversible carnivory: 1422

**Oysters**
indicators of copper contamination: 1866
*Ostrea puelchana*
reproductive strategies: 1171
biomass
effect on oxygen and ammonia exchange rates
at sediment-water interface: 201

**$^{32}P$**
biomass transfer patterns
in benthos: 1797
phosphorus uptake kinetics: 1704
translocation
between *Savignium milleporum* and *Millepora dichotoma*: 337

**P-I curves**
diurnal variations
picoplankton photosynthesis: 1536

**Pacific salmon**
behaviour and survival: 172

**PAHs**
distribution in sediments
Lake Varese (N. Italy): 1367

**Paleoclimate reconstruction**
see Paleolimnology: 1534

**Paleoecology**
see Paleolimnology

**Paleogeography**
*Bainbridgia-Dualipora* association
implications: 1719
*Dosilia brouni*
Lake Baringo (Kenya): 1737

**Paleohydrochemistry**
early Pleistocene
Sr and Mg content in ostracods
Baza Basin (SE Spain): 45

**Paleohydrology**
radiometric chronology
Late Quaternary
NW Africa: 542
'shallow lake'
at Snellegem-St.Andries
Belgium: 412

**Paleolimnology**
chironomid stratigraphy
Lake Grasmere (New Zealand): 1516
chrysophycean stomatocysts: 1467
climate reconstruction
paleolakes (central Sahara):119, 1534
diatom analysis
central Arkona Basin (southern Baltic): 1706
environmental history
Truelove Lowland (Canada, Devon Island): 898
eutrophication history
coastal lakes (Southwest England): 1259
Lake Särkinen (Finland, Sotkamo): 1491
Polish lakes
analysis of Cladocera: 1670
Slapton Ley (U.K., Devon): 738, 1261
heavy metal pollution
sediments
English Midlands reservoirs (U.K.): 550
Llangorse Lake (U.K., Wales): 851
impact of acidification and metal pollution
Lake 817 (Canada, Newfoundland): 1472
laminated sediments
Shropshire-Cheshire meres (U.K.): 506
late-glacial Chironomidae: 1796
Neusiedlersee (Austria)
nutrients and trace metals: 681
succession of Ostracoda: 1005
ontogeny
'shallow lake'
Sandy Flanders (Belgium): 412
pollen recruitment
Groby Pool (England, Leics): 386
paradigm shifts: 1260
pH reconstruction
diatom indicators
lakes 203 and 630 (Canada, Newfoundland): 1539
recent advances
linkages with limnology: 1603
recent sediments
biological marker approach
Loch Affric (N. Scotland): 357
saline lakes
Lake Magadi (Kenya): 109
sediment features and evolution
Lake Honghu (central China): 252
sediment geochemistry
Qilu Hu (China, Yunnan Province): 220
sediment profiles
Lake District lakes (U.K.): 1321
sedimentary diatom assemblages
Lake District tarns (U.K.): 735
trends
in Finland
review: 1507
trophic state prediction
from diatom concentrations and accumulation rates
Florida (USA) lakes: 1835

**Paleomagnetism**
Holocene radiocarbon time-scale
calibration: 506
study of paleoecology
Lake Bjäresjösjön (S. Sweden): 580

**Paleontology**
*Bainbridgia-Dualipora* association
implications: 1719
rugose corals
early ontogeny principles
review: 510

**Palynology**
reconstruction of Holocene vegetation
central Sahara: 1534

**Pans**
in Seewinkel (eastern Austria)

chemistry: 1137
crustacean zooplankton: 1137

**Pantropical**
rotifers
Balearic archipelago
(W. Mediterranean Sea): 395

**Paper mill effluents**
effects on fish of stony shores
Lake Päijänne (Finland): 88

**Papua New Guinea**
tropical waters
diatom assemblages
multivariate analysis: 1791

**PAR transmittance**
estimation: 190

**Paracilicaea**
*keijii* n.sp.: 828

**Paracolpidium n.gen.**
for *Colpidium truncatum*: 587

**Paradox of plankton**
diversity-disturbance relationship: 1614

**Paralabidocera**
*antarctica*
postembryonic development: 1686

**Paraleptophlebia sp.**
grazing on periphyton communities: 874

**Paralytic Shellfish Poison**
toxic dinoflagellate bloom
Patagonian coast (Argentina): 496

**Paramesopodopsis**
*rufa*
life history
seasonal variation: 517

**Paramolgus**
*ampullaceus* n.sp.: 794

**Pararaeolaimus**
*rumohri* n.sp.: 833

**Parasexual fusion**
*Enteromorpha linza: 868*
*Ulvaria oxysperma*: 868

**Parasitic castration**
*Lepidurus packardi*
contribution to diapause egg reserves: 16

**Parasitism**
cestodes on *Artemia*: 43
crabs on corals: 1436
in rotifer populations: 1097
Trematoda
effect on life history
of *Littorina obtusa* vs *L. mariae*: 1846
*Unionicola (Pentatax) macani*
on *Lanistes ovum*: 507

**Parthenogenesis**
*Artemia*: 2
*Artemia monica* and *A. urmiana*: 8
*Eugymnanthea inquilina japonica*: 934
*Macrotrachela quadriconri*: 1420
*Macrotrachela quadricornifera*: 1289
Rotifera
taxonomic problems: 1471
*Scapholeberis armata*: 146

**Partial consumption**
*Diplonychus rusticum*
effect of prey density on meal size: 445

**Partial meromixis**
reservoirs
Tasmania: 210

**Particle size**
characteristics
fluvial suspended sediment
overview: 1803
of seston
zooplankton grazing: 599

**Particulate organic carbon**
dynamics
regulated rivers (USA, Montana): 1326
relation to bacterio- and phytoplankton: 862
seasonal dynamics
Ariège and Garonne rivers (France): 296
settling flux and sinking velocity
Lago di Mergozzo (Italy): 259

**Particulate organic matter**
concentrations
prairie streams (USA, Texas): 754
size fractions
prairie streams (USA, Texas): 753
transport dynamics
Henry's Fork of the Snake River (USA, Idaho): 53

**Particulate phosphorus**
seasonal dynamics
Ariège and Garonne rivers (France): 296

**Partitioning**
heavy metals
in sediments: 298, 1881

**Past salinity**
from fossil diatoms
Bolivian Quaternary lake: 1461

**Patchiness**
Enchytraeidae
West Florida (USA): 737

**Pathogenicity**
*Aphanomyces astaci*
for *Austropotamobius pallipes*: 1089

**Patterning**
*Dugesia* regeneration
effect of timing of cutting: 1121

**$^{210}$Pb**
inventories in lake sediments
Adirondack region (USA): 860
sediment dating: 252, 521, 738, 1232, 1261, 1402, 1491, 1576

**$^{210}$Pb/$^{210}$Po**
dating of aquatic deposits: 476

**PCBs**
accumulation in biota: 1054
contamination
bryozoan colonies: 744
sediment toxicity: 582

**P:C ratios**
of biotic and organic compartments
phosphorus cycle model: 822

**Peat pools**
island habitats for midge larvae: 812

**Peatland**
drainage impact on water chemistry: 1012

**Pelagia**
*noctiluca*
nematocyst morphology: 77
reproduction: 1460

**Pelagic**
juvenile fish
food and habitat partitioning: 810
*Spumella* feeding behaviour
implications for bacterial size: 767
trophic interactions
Mondsee (Austria): 432

**Pelagic-benthic coupling**
gammaridean amphipod community structure: 301

**Peltidiidae**
*Alteutha interrupta*
copepodid development
and phylogeny: 373

**Penaeids**
post-larval incursions
Chwaka Bay (Zanzibar, East Africa): 1660

**Penis**
*Bdellocephala brunnea*
dedifferentiation
and redifferentiation: 938

**Pentacoelum**
*hispaniensis*
from Spanish freshwaters: 1592

**Perca**
*fluviatilis*
growth and fecundity: 1000
population structure: 1000
population density estimation
River Danube system (Hungary): 686

**Percent mud**
content
relationship with sediment dispersion: 1595

**Perch**
mercury content: 1240
predation on *Daphnia*: 1883

**Periodicity**
desmids
Grane Langso (Denmark): 1254
*Hydra*: 1674
nitrogen uptake by phytoplankton: 1777
phytoplankton productivity: 1363

**Periphyton**
abundance and diversity
effect of disturbance: 10
community structure
effect of cooling water discharge: 1605
effect of snail grazing: 423, 1065
effect of nutrient enrichment: 1065
diatoms
of Truckee River (USA, Nevada): 1468
effect of urban and industrial wastes: 1223
enumeration
by computerized plankton counter: 699
impact of cage fish farming: 1654
impact of industrial pollution: 281
multivariate analysis: 1791
net primary production
measurement with portable chamber: 574
nutrient limitation
*in situ* nutrient enrichment experiment: 249
Upper Guadalupe River (USA, Texas): 1637
of lotic environments (Argentina)
preference for macrophyte species: 314
on leaves vs clay tiles
effect of grazers: 874
productivity of *Nais* spp.: 857
siltation effects: 645
spatial variation
effect of fetch: 282

**Periwinkles**
*Littorina scutulata* and *L. sitkana*

feeding habits: 1786

**Persistence**
sulfonylurea herbicides
in soils: 1382

**Perturbation**
DOC abundance and cycling: 1522

**Pest control**
two-spotted red spider mite
with *Ascophyllum* liquid extract: 711

**Pesticides**
deltamethrin
toxicity to *Daphnia magna*: 1870
relation to mouthpart deformities
*Procladius paludicola*: 1337

**Petrochemicals**
mouthpart deformities
larval *Procladius* spp.: 413

**PFR model**
river hydraulics: 564

**PGI genotypes**
*Daphnia cucullata*
differences in life-history and aging: 462

**pH**
depressions
effect on moulting, mortality, major ions
*Leptophlebia cupida*: 1462
*Stenonema femoratum*: 1462
effect on macroinvertebrate drift: 144
effect on metal concentration and distribution
*Catostomus commersoni* tissues: 1880
effect on egg hatching and nymphal survival
*Cloeon triangulifer*: 1672
effect on *Gammarus* distribution: 1127
effect on occurrence of microcrustaceans: 150
effect on phosphorus mobility: 1040
effect on Al toxicity to phytoplankton: 1344
effect on pore-water phosphate dynamics: 1615
effect on toxicity of mercury compounds: 1419
effect on growth of *Gammarus pulex*: 1226
effect on *Brachionus calyciflorus*: 1148
elevation
impact on benthic community: 439
effect on algal community: 1839
effect on phytoplankton community: 1270
gradient
benthic algal response to nutrient enrichment: 273
impact on biogeochemistry of humic substances: 394
levels
amphibian breeding ponds (USA, Wisconsin): 943
of fresh- and coastal waters and sediments: 165
reconstruction
from diatoms: 1694
relationship with lake bacteria and DOC
acid lakes (USA, Florida): 819
toxicity
to *Libellula julia* nymphs: 1447, 1448

**Phaeodactylum**
*tricornutum*
nanomolar nitrate uptake
measurement: 1383

**Phaeophyta**
*Ascophyllum nodosum*
extract for pest control: 711
competition
between *Fucus* spp.: 288
deep-water macroalgae
photosynthetic performance: 1311
*Ecklonia cava*
callus formation: 881
photosynthesis: 69
*Ecklonia stolonifera*
holdfasts
size-age relation: 1252
*Laminaria*
enzyme analysis and taxonomy: 159
*Laminaria setchelli*
effect of heated effluents on abundance: 1247
*Laminaria abyssalis*
life cycle: 1878
Lessoniaceae
biogeography: 302
*Lessonia* spp.
harvesting
ecological effects: 1763
*trabeculata*
culture and growth: 464
*Macrocystis*
cultivation: 1647
sediment toxicity to gametophytes: 817
*Pterygophora californica*
effect of heated effluents on abundance: 1247
*Sargassum* bed
seasonality of standing crop: 1726
*Sargassum* canopy
characteristics: 362
*Sargassum muticum*
ecology: 15

**Phagocata**
*vitta*
feeding biology: 66
predators and planariid competitors: 67
*vivida*
production of monoclonal antibodies: 1570

**Phagocytosis**
*Dugesia japonica*
SEM study: 807
planarian reticular cells: 1169

**Phagostimulant**
relation to feeding behaviour
*Littorina littorea*: 802

**Phagotrophy**
*Spumella* sp.: 767

**Phallodrilus**
*P. crypticus* n.sp.: 1449
*P. labouichensis* n.sp.: 1449
*P. subterraneus* n.sp.: 1449

**Pharyngochromis**
*darlingi*
population dynamics
Lake kariba: 795

**Pharynx malformation**
*Bdellocephala brunnea*
effect of carcinogen: 782

**Phase shifts**
in coral reef communities
ecological significance: 438

**Phenols**
in water and sediments
NW Mediterranean Sea (Gulf of Lions): 293
toxicity
microplate bioassay
*Selenastrum capricornutum*: 1698
uptake and mineralization rates
polyhumic lake: 862

**Phenology**
*Lemanea fucina*: 1782
*Lepidurus packardi*: 16
of dormancy
*Mesocyclops edax*: 427
profundal Chironomidae
Starnberger See (Germany): 607
*Sargassum muticum*: 15
*Sargassum* standing crop:: 1726

**Phenotypic**
plasticity
*Littorina* populations: 205
*Nucella lapillus*: 1297
response
*Halocordyle disticha*
to water flow: 1575

**Philyra**
*globasa*
larval and post-larval development: 926

**Phosphatase**
activity
phosphate deficiency in phytoplankton
acidified lakes: 1335
in polyhumic lake
origin, distribution and activities
polyhumic lake: 1206

**Phosphate uptake experiments**
phosphate limitation for phytoplankton
comparison with bioassays: 1745

**Phosphate**
adsorption: 628, 1349
concentration and sediment-water exchange
effect of salinity: 318
coprecipitation with calcite: 786
exchange between coral reef bottom and water column: 1622
fertilization
effect on epilithic diatom community
Kuparuk River (Alaska): 1142
flux
effect of bioturbation by *Nereis*: 317
grannules
in planktonic algae: 187
in sediment
sequentional fractionation: 669
implications for lake restoration: 883
influx
effects on ecosystem
Ems estuary (The Netherlands): 408
level
Loosdrecht lakes (The Netherlands)
restoration measures: 1757
pore water
Dead Sea sediments: 1243
tropical stream
volcanic landscape: 1365
mobility
effect of pH and redox potential: 1040
release
from aerobic sediments: 832
from dissolved organic phosphorus: 340
retention
woody debris in disturbed streams: 75
spatio-temporal variability
Thau Lagoon (France): 1340
uptake
phytoplankton: 431

**Phosphorus**
addition
effect on phyto- and zooplankton community structure: 1272
availability
alkaline phosphatase activity: 529
phytoplankton bioassay: 174
response of phytoplankton: 928
bacterial bound P for zooplankton: 751
budget
Hidden Valley wetland (Canada, Ontario): 601
Lake St. Clair (Canada/USA): 1220
Marsdiep tidal basin (Wadden Sea): 1375
concentration
eutrophication trend: 550
effect on planktivorous fish production: 663

influence on phytoplankton biomass: 475
relationship with flow (Kuparuk River, Alaska): 1329
content
*Ceratophyllum demersum* litter: 157
in organic matter: 1128
control: 676, 784, 1749
cycling
importance of sediments: 545
modelling: 822
role of macrophytes: 1287
role of *Vaucheria dichotoma*: 1286
sediment-water interactions: 1399, 1617
demand in phytoplankton
bioassay
acidified lakes: 1335
discharges from Rhine River
effect on Dutch Wadden Sea ecosystem: 853
dynamics
effect of liming and biological activity: 1598
effect of spring phytoplankton peak: 1336
effect on phytoplankton succession: 1463
effect on chlorophyll *a* concentration: 1463
relation to restoration measures: 1751
enrichment
*Prosimulium* response: 755
excretion
*Euchlanis*: 677
zooplankton: 678
export
from watershed (Kuparuk River, Alaska): 1329
loading
Bosherston Lakes (U.K., SW Wales): 1402
drainage channel response: 544
Eau Galle Reservoir (USA, Wisconsin): 820
Loosdrecht lakes (The Netherlands): 676
flow
restoration and resilience to recovery
Lake Loosdrecht (The Netherlands): 1754
from gull excreta: 1357
in pore water
relationship with internal loading
Lake Sobygaard (Denmark, Jutland): 1615
inactivation with iron (III) chloride
in sediments
lake restoration: 182
iron:phosphorus ratio
in surface sediment (Danish lakes): 832
kinetics
Hartbeespoort Dam (South Africa): 1704
levels
effects of flushing
Veluwemeer (The Netherlands): 814
limitation
algal growth potential test: 902
diffusion enrichment technique: 429
loading
Hartbeespoort Dam (South Africa): 1705
European whole-lake biomanipulation studies: 134
lakes in SW Friesland (The Netherlands): 1747
Loosdrecht lakes (The Netherlands): 678
Onondaga Lake (USA, New York): 74
mass balance model
Lakes Haukivesi and Päijänne (Finland): 564
mean annual load
estimation of SPM-bound fraction
Yarra River (Australia): 1577
monitoring and assessment
dynamic balance model:: 1748
recycling
importance of aquatic macrophyte decay: 1047
regeneration
from seston in lake sediments: 47
release
hypereutrophic lake sediments: 239
whole-stream studies: 726
removal
by dredging: 787
by planktonic algae: 187
seasonal distribution
Hartbeespoort Dam (South Africa): 1705
solubility: 1641
sorbed fraction of sediment
seasonal variation: 1616
transformations
epilimnia of humic forest lakes: 850
trophic response
in acidic and non-acidic lakes
Nova Scotia (Canada): 886
turnover
Öre estuary (northern Sweden): 547

**Photo interpretation**
wetland changes
St. Marys River (USA, Michigan): 1844

**Photoadaptation**
*Gelidium sesquipedale*: 1718

**Photoassimilation**
algal growth
Monod's formula: 628

**Photoinhibition**
*Chrysochromulina* distribution
acid lakes: 1258
photosynthesis of *Ruppia drepanensis*: 589

**Photon flux density**
life cycle
*Laminaria abyssalis*: 1878

**Photon growth yield**
form-function analysis
seaweeds: 1386

**Photoperiod**
effect on conchospore formation
*Porphyra* spp.: 1792
induction of gamogenesis
*Scapholeberis armata*: 146
population dynamics

*Tisbe holothuriae*: 1140

**Photoprotection**
pigments in *Daphnia longispina*: 761

**Photoreceptors**
Turbellaria
ultrastructure: 935, 1620, 1873

**Photoreduction**
of Fe(III) oxides
effect of light and nutrient addition: 1662

**Photoresponse**
in *Hydra*: 1674

**Photosynthesis**
epilithon
tundra stream (Alaska): 209
*Chlorella pyrenoidosa*: 666, 930
coastal shelf and oceanic areas off Brazil: 217
diel periodicity: 1363
*Dunaliella parva*: 837
dynamic vs static models: 1294
*Ecklonia cava*: 69
effect of mixing regime
Laboratory Scale Enclosures: 929
effect of nutrient enrichment: 429
effects of suspended solids: 389
Emerald Lake (USA, California): 1574
Gelidiaceae: 989, 1026
inhibitor
use in *in situ* primary production studies: 319
macroalgae
deep-water off Bermuda: 1311
phytoplankton: 1341, 1679
*Ruppia drepanensis*: 589
zooxanthellae: 1523, 1713

**Photosynthetic bacteria**
distribution
polyhumic lake: 944
stratified humic lake: 72

**Photosynthetically active radiation (PAR)**
adaptation
by symbiotic zooxanthellae: 1713
amplification
in symbiotic *Leptoseris* coral: 1523
through freshwater ice
measurement: 189

**Phototaxis**
*Daphnia magna*
clones and sexual offspring: 396

**Phototrophic sulphur bacteria**
role in iron distribution: 592

**Phoxinus**
eos and *P. neogaeus*
spatial distribution and abundance
Tuesday Lake (USA): 736
*erythrogaster*
oxygen consumption rates
effect of salinity: 1715
*phoxinus*
feeding behaviour: 185

**Phragmites**
decline
influence of shoreline algal wash
Lake Constance-Untersee (Germany): 1282
leaves
microbial decomposition: 1685

**Phycolcolloids**
from carrageenophytes
chemical screening: 1480
from red algae
NMR spectroscopy: 639
from *Kallymenia reniformis*: 417

**Phycocyanin**
clones of *Synechococcus* group: 1030

**Phycoerthrin**
clones of *Synechococcus* group: 1030

**Phycology**
Cape Maclear, Lake Malawi: 688

**Phylactolaemata**
*Fredericella sultana*
North American vs European forms: 1863

**Phyllodiaptomus**
*blanci*
postembryonic development: 1396
*sasikumari* n.sp.
South India: 1398

**Phyllophora**
taxonomy
life history implications: 1034

**Phyllopods**
distribution in temporary pools
South Africa: 701
life-history strategies: 700

**Phylogeny**
acoel turbellarians: 1049
Actiniaria and Scleractinia
allogeneic recognition: 1848
Actiniidae: 1103
Amphipods
oostegite structure: 1643
*Artemia monica* and *A. urmiana*: 8
Chydoridae: 1077
dalyellioid platyhelminths
significance of unciliated epidermis: 846
*Discoplana*: 1676
Enchytraeidae: 323, 324

Hydorzoa, Scyphozoa and Anthozoa: 775
Lecithoepitheliata
review: 1711
*Littorina saxatilis*: 1664
Platyhelminthes
in relation to protonephridia: 1453
Rotifera
orders and genus *Notholca*: 1800
value of mastax morphology: 1064
value of skeletal muscles: 321
*Thalestris*: 374

**Phymatolithon**
relationship with *Chondrus* cover: 1306

**Physical forcing**
effect on phytoplankton species composition and diversity: 303

**Physical-chemical variables**
phyllopod distribution: 701
snail and bivalve populations: 1187

**Physicochemistry**
rivers of Northeast Scotland: 136

**Physiography**
disturbances
indication by Oligochaeta size spectra
Ebro basin reservoirs (Spain): 1391

**Physiological indicators**
of nutrient limitation in phytoplankton: 1745

**Physiological state**
of phytoplankton community: 757

**Physiology**
caprellid amphipods: 1764
*Dreissena polymorpha*: 1023
feeding in corals
review: 973
Gelidiaceae: 1026
*Gelidium latifolium*: 1427
whitefish
Finnish acidified lakes: 1387

**Phytase**
dissolved organic phosphorus
mineralization: 340

**Phytomacrofauna**
California marsh: 140

**Phytoplankton**
abundance and composition
Lake Erken (Sweden): 1336
Lake Manzala (Egypt): 891
Lake St. Clair (Canada/USA): 1194
bioassay
effect of wastewater on productivity: 983
phosphate demand in acidified lakes: 1335
phosphorus availability in lakes and rivers: 174
sediment toxicity: 380, 1199
biomanipulation
review: 635
biomass
Calder Lake (USA): 1817
Canadian Shield lakes: 947
effect of cisco die-off: 1760
effect of fish removal: 717, 1430, 1618
effect of food-web manipulation: 1743
effect of phosphorus concentration: 475
lagoon of Tikehau atoll (French Polynesia): 292
Lake Mead (USA): 1609
Lake St. Clair (Canada/USA): 977
measurement methods: 163
relation to bacterioplankton: 596
relationship to zooplankton biomass: 501
response to fish predation: 1014
shallow lakes (central Europe): 1788
bloom
effect on nitrogen levels: 1340
relation to C and N uptake: 1153
utilisation by copepods: 1758
carbon assimilation dynamics
St Lawrence estuary (Canada, Quebec): 415
cell cycle
*Heterocapsa* sp.: 138
*Olisthodiscus luteus*: 138
cell identification and counting
use of flow cytometry: 93
chlorophyll budget
use of dialysis culture: 893
collapse and consequences: 836, 1270, 1617
community structure
effect of disturbance: 276, 303, 416
effect of fertilization: 1272
effect of fish removal: 717
impact of *Abramis brama*: 1688
impact of cage fish farming: 1654
impact of *Coregonus* predation: 809
impact of herbivory: 1668
impact of nuclear power plant: 1061
in epilimnion and metalimnion: 690
Lake Ringsjön (Sweden): 142
Lake St. Clair (Canada/USA): 1634
physiological state of community: 757
relation to pollution gradient: 619
stir-up effect of wind: 1288
Westport River Estuary (USA): 334
composition and biomass
Lake Sevan (Armenia): 1307
Tavropos Reservoir (central Greece): 1186
Warri/Forcados Estuary (Nigeria): 1278
control
by large- vs small-bodied zooplankton: 391
by large-bodied cladocerans: 624
by macrophyte restoration: 331
detrital dynamics: 630, 1284
diet of edible cockle: 875
differential feeding by *Daphnia*: 728
diversity-disturbance relationship: 276, 303,

416, 813, 1613, 1614
dynamics
effect of abiotic and biotic factors: 887
recycling of limiting nutrients
overview: 267
Rhenosterkop Dam (South Africa): 1441
effect of contaminated sediments: 1157
effect of heavy metals: 725
effect of reduced P and N loading: 433
effect of zooplankton: 484
effect on elemental composition
of suspended particulate material: 13
extracellular C release
bacterial utilisation: 308
growth rate
in relation to light and temperature: 384
interactions with calanoids and cyclopoids: 1626
nutrient limitation
lotic vs lentic communities: 1637
of acidic lake
pH-independent effect of aluminum: 1344
of canals and lakes (The Netherlands): 901
of coastal shelf and oceanic areas off Brazil: 217
of freshwaters and coastal waters (Ghana): 165
of Lake Liddell (Australia, NS Wales): 1463
of Ogelube Lake (Nigeria): 173
optical environment: 631
particulate phosphorus content
contribution of dissolved calcium and magnesium: 861
photosynthesis
Canadian Shield lakes: 947
Emerald Lake (USA, California): 1574
Laboratory Scale Enclosures: 929
West Point Lake (USA): 121
pigment composition
*Heterocapsa* sp.: 970
*Olisthodiscus luteus*: 970
periodicity
Pyramid Lake (USA, Nevada): 583
nitrate reductase activity: 1869
nitrogen uptake and metabolism: 1777
nutrient enrichment experiments
Florida lakes: 356
phosphate uptake
alkaline phosphatase activity: 529
influence of zooplankton: 431
phosphate limitation
uptake experiments vs bioassays: 1745
physical and chemical effects of grazing: 1696
physiology: 312, 1294
productvity
contribution of picoplankton
tropical waters (Brazil): 1692
Danube Delta Lakes: 1738
diel periodicity: 1363
effect of tebuthiuron
mesocosm study: 1693
Ezequiel Ramos Mexía Reservoir (Argentina): 1059
Lake Awasa (Ethiopia): 892
Lake Erken (Sweden): 1336
Oosterschelde (The Netherlands): 1826
Red Sea: 715
River Danube (Hungary): 200
Saguenay Fjord (Canada): 294
relationship with chemical and physical variables
multivariate analysis: 1757
relationship with macrophytes: 719
relationship with neutral sugars and amino acids: 1152
relationship with zooplankton
effect of biomanipulation: 274
response to fish manipulation: 834
response to phosphorus: 886, 928
respiration
diel changes: 1063
seasonal succession and diversity
impact of disturbance: 774, 1185, 1454, 1723
effect of mixing and silica enrichment: 903
effect of physical-chemical variables: 432
effect on temporal changes in photosynthesis: 1341
in humic lake
mesocosm experiment: 1487
Lake Vasikkalampi (Finland): 483
relation to algal record in trapped sediment: 539
relation to ammonium uptake rates: 1308
role of scales of disturbance: 1413
seasonality
Ohio River and Kentucky tributaries (USA): 1330
spatial changes in size spectra: 30, 1727
spatial distribution
Abra of Bilbao vs adjacent shelf waters (Spain): 1279

**Phytotoxicity**
glyphosate
bioassay with duckweed: 1004
sulfonylurea herbicides
pot bioassay with turnip seedlings: 1382

**Picoplankton**
biomass and production
Bay of Villefranche sur Mer (NW Mediterranean): 1564
fish culture pond: 1679
bloom
Lake Biwa (Japan): 1030
contribution to primary production
tropical waters (Brazil): 1692
photosynthesis
Lakes Loosdrecht and Maarssveen (The Netherlands): 1536

**Pictorial key**
*Ilyocryptus*
European species: 1652

**Pigmentation**
interspecific variation
implications for production estimates: 1434

**Pigment**
composition
*Heterocapsa* sp.: 970
*Olisthodiscus luteus: 970*
concentration
*Gelidium sesquipedale*: 1718
estimation
*Ruppia drepanensis*: 589
in benthos
Antarctic lake: 1300
mutant
*Porphyra yezoensis*: 1569
photoprotection
*Daphnia longispina*: 761

**Pike**
mercury content: 1240

**Piona**
*exigua*
predation on zooplankton
in enclosures: 250
sp.
predation on *Daphnia laevis*: 1093

**Piscivores**
zooplankton grazing
biomanipulation: 957

**Pisidium**
density decline: 971

**Planaria**
*Bdellocephala brunnea*
penis
dedifferention and redifferentiation: 938
cell culture
experiments with culture media: 573
*Dugesia dorotocephala*
two-stage carcinogenesis: 1170
*Dugesia japonica japonica*
epidermal cell differentiation: 776
head
rhodopsin-like proteins: 569
phagocytosis
SEM study: 807
ploidy analysis: 783
from Japan
historical review: 879
in toxicology: 156
*Kontikia mexicana*
copulatory apparatus: 1267
*Phagocata vivida*
production of monoclonal antibodies: 1570
phagocytic response of reticular cells
to heat-killed bacteria: 1169
regeneration
blastema-associated proteins
in relation to position: 611
patterning and proportion regulation: 1121
pharynx: 1571
positional information from melatonin: 1879
relationship with cancerous tumor
development: 732

**Planktivorous fish**
abundance
effect on chlorophyll and Secchi depth:
1120
*Alosa aestivalis*
effect on zooplankton community
structure: 671
arctic grayling
feeding simulation model: 1256
chemical manipulation: 623
effect on plankton community: 1151, 1640
*Gasterosteus aculeatus*
relation to zooplankton migration: 188
long-term changes
Lake Ringsjön (Sweden): 142
production
restoration of shallow eutrophic lakes: 663
removal
for biomanipulation
overview: 957
whole-lake food-web manipulation: 1742

**Plankton**
see different groups
algae
phosphorus removal: 187
ciliates
seasonality
Florida lakes (USA): 122
species composition and distribution
Lake Kinneret (Israel): 1027
collection
sampler: 990, 1322
community respiration
relation to size distribution and lake trophy: 21
community structure
effects of atrazine: 959
effects of nutrients and planktivorous fish: 441
impact of planktivorous fish: 1640
composition and dynamics
effects of fish density: 771
Lake Kariba (central Africa): 1033
Lago Maggiore (Italy): 145
distribution
relation to salinity: 815
ecology
Lake Michigan (USA): 1758
Lake St. Clair (Canada/USA): 1194
effects of contaminants: 1054
enumeration
by computerized plankton counter: 699
food chains
effect of humic substances: 849
in highly humic lake:1488
periodicity
Brewery and Boating Lakes (Nigeria): 46
prey
to *Pleurobrachia pileus*: 1175
Protozoa

ecology
Rio Grande Reservoir (Brazil): 104

**Planorbis**
*planorbis* cadavers
source of short-chain carboxylic acids: 377

**Plant growth regulators**
*Agardhiella subulata*
tissue culture: 213

**Plant**
decomposition and nutrient liberation rates
Parana medio River (Argentina): 982
distribution
St. Marys River (Canada: 877
nitrate uptake: 339

**Planulae**
development
*Haliplanella lineata*: 571
hermatypic corals: 1868
Xeniidae: 130
*Entacmaea medusivora* n.sp.: 509
*Favia favus*: 1572
Hydrozoa: 1074
*Platygyra lamellina*: 1572

**Plasma ion concentration**
of white fish
in Finnish acidified lakes: 1387

**Plastic adaptations**
*Leuciscus svallize*: 463

**Plastic traps**
study of macroinvertebrate assemblages
comparison with mesh bags: 428

**Plasticity**
shell form
*Nucella lapillus*
exposed- vs protected-shore populations: 1297

**Plastid DNA restriction**
*Gracilaria verrucosa* problem: 167

**Platanus**
leaf litter
feeding tests with caddis
and amphipod larvae: 1042

**Platichthys**
*flesus*
diet and growth: 1812

**Platygyra**
*lamellina*
larval development and survivorship: 1572

**Platyhelminthes**
acoel flatworms
ocelli and sagittocysts
fine structure and function: 1873
phylogeny: 1049
*Allostoma* sp.
photoreceptors
ultrastructure: 962
catecholamine-containing neurons
number and spatial distribution: 838
*Convolutriloba retrogemma*
budding process: 742
*Decadidymus gulosus* n.gen. n.sp.
Australia: 266
*Diceratocephala boschmai*
life history and biology: 852
*Dugesia japonica*
differentiation: 776
*Dugesia bengalensis*
life cycle: 12
*Dugesia sanchezi*
Argentina: 1166
evolution of protonephridia: 1453
*Gyratrix hermaphroditus*-complex
chromosomal evolution and speciation: 1368
karyology
*Geoplana marginata*: 35
*Issoca rezendei*: 35
*Kontikia mexicana*
copulatory apparatus: 1267
meiofauna
Australia: 424
*Mesorhynchus terminostylis*
proboscis
anatomy and ultrastructure: 401
microturbellarians
extracellular matrix
SEM study: 998
morphology of photoreceptors
ultrastructure
review: 1620
nervous system
ultrastructure
proseriates vs lower flatworms: 1411
of brackish-water
biogeography: 79
*Pentacoelum hispaniensis*
Spanish freshwaters: 1592
polyclad turbellarians
from Viti Levu (Fiji): 1676
shell-globules in vitelline cells
ultrastructure: 656
statocysts
ultrastructure: 472
*Temnocephala* spp.
epidermal surface
SEM study: 378
temporary water turbellarians
distribution and anatomy: 1600
Umagillidae
unciliated epidermis
fine structure: 846

**Playa lakes**
Australian arid zone
geochemical evolution: 63
Lake Torrens (South Australia)
absolute dating of sedimentation: 1525

**Plea**
*frontalis*
larval development
and adult redescription: 135

**Plecoptera**
egg development
*Protonemura* spp.: 1068
emergence, maturation
and upstream oviposition flights: 1893
*Isoperla grammatica* and *I. difformis*
diet: 1045
species associations
subarctic lakes and streams (Canada, Québec): 720

**Pleistocene**
history
Qilu Hu (China, Yunnan Province): 220

**Pleniglacial**
biostratigraphy
subfossil remains of chironomids and cladocerans: 765

**Pleuronectes**
*platessa*
year-class strength
regulation: 1342

**Ploidy analysis**
*Dugesia japonica japonica*
by flow cytometry: 783

**Plumatella**
*emarginata*
recruitment and colonisation
stream riffles: 873

**Plume front**
effect on distribution of organic and inorganic matter
off Rhône River (France): 987

**Plunging inflow**
effect on nutrient distribution: 1778
effect on oxygenation and biota: 1778

**Podocoryne**
*carnea*
striated muscle cells
transdifferentiation: 942

**Poecilia**
*reticulata*
uptake of chlorobenzenes
effect of suspended sediments: 1532

**'Points' method**
stomach contents analysis
bluegills: 84

**Polarity**
of bud
in *Convolutriloba retrogemma*: 742

**Polders**
contribution to external P loading
SW Frisian lakes (The Netherlands): 1747, 1749

**Policy**
eutrophication
Loosdrecht lakes research (The Netherlands): 911

**Politics**
role in water management: 1702

**Pollen**
analysis
cultivation history
Lakes Suurjärvi and Heinälampi (Finland): 668
recruitment
vegetation change
Groby Pool (England, Leics): 386
stratigraphy
Lake Bjäresjösjön (S. Sweden): 580

**Polluted sediments**
ceramic processing: 1531

**Pollution**
acid wastes
biotic response: 1586
effects on benthic algae: 184
Arabian Gulf coast: 1364
assessment and monitoring
use of cellular and biochemical indicators: 1314
use of Index of Biotic Integrity: 1262
use of residue chemistry: 1836
Chesapeake Bay: 1280
control
by *Dreissena polymorpha*: 1400
role of bioassays: 1021
effect on benthic invertebrate communities
St. Marys River (Canada/USA): 248
effect on biota
St. Marys River (Canada/USA): 877
effect on Cladocera assemblage
Popradské pleso lake (Czechoslovakia): 1790
effect on macrobenthos
Neches river estuary (USA): 721
effect on mangroves
Red Sea coast (Saudi Arabia): 28
effect on reproduction
*Coregonus* spp.
Lake Päijänne (Finland): 694

hydrocarbons
accumulation in sediments and mussels
St. Marys River (Canada/USA): 878
effects on estuarine macrobenthos: 1222
impact on aquatic oligochaetes
James River Estuary (USA, Virginia): 422
impact on phytoplankton community
River Lujan (Argentina): 619
impact on seaweeds: 283
indicators
meiobenthos: 1503
industrial salinization
effect on *Fundulus catenatus*: 1715
effect on *Phoxinus erythrogaster*: 1715
insecticides
direct and indirect effects on zooplankton: 1708
mercury
accumulation and behaviour in sediments: 1218
accumulation in fish: 1218
transport by Katun river (West Siberia): 1663
oiled sediments
effect on *Hexagenia* nymph distribution: 1524
organochlorine and bromine compounds
estimation: 1053
source determination
by nutrient trajectories: 1108
tropical Asian rivers: 444
West Point Lake (USA): 121

**Polyarthra**
*vulgaris*
horizontal distribution: 1512

**Polycelis**
*auriculata*
chromosomal polymorphisms: 1695
geographical distribution: 880
*felina*
competition with *Phagocata vittta*: 67
spp.
multiple eyes
relation between number and body length: 23

**Polychaeta**
*Nereis diversicolor*
metal accumulation: 297

**Polycladida**
*Discoplana* spp.
new records
from Viti Levu (Fiji): 1676

**Polyculture**
fish species interactions: 1145

**Polycyclic aromatic hydrocarbons**
content
surficial sediments and caged mussels: 878

**Polydora**
commensal on *Mytilus*: 1211

**Polyhumic**
Mekkojärvi (southern Finland)
bacterioplankton production: 944
decomposition of dissolved organic matter: 862
Lake Kuortaneenjärvi (Finland)
phytoplankton and growth requirements: 1761

**Polymer matrix**
immobilization of protoplasts
*Ulva* culture systems: 568

**Polymorphism**
*Gigartina* spp.: 811
*Littorina pallescens*: 336
Rotifera: 920
seaweeds: 710

**Polyp**
*Atorella japonica*
muscles and nerves
ultrastructure: 1087
prey capture
effect of water movement: 1544

**Polyphemus**
predation on rotifers: 1091

**Polyphenolic compounds**
leaching from litter: 1553

**Polysaccharides**
from Gracilariaceae: 575
from marine algae: 1244
from seaweeds
biotechnology: 1409
sulphated polysaccharides
from red algae: 1231
xylogalactan sulphate
from *Chondria macrocarpa*: 576

**Ponds and reservoirs**
*Daphnia galeata*
reproductive effort
comparison: 218

**Ponds**
aquaculture
alternatives to siting ponds in mangroves: 1389
experiments
food consumption assessment
*Esox lucius: 1376*
*Silurus glanis*: 1376
*Stizostedion lucioperca: 1376*
fish polyculture
fish-environment relationships: 1145
fish-fish relationships: 1145

**Pontoporeia**
*hoyi*
density and distribution
Lake Ontario (Canada): 1596

**Pools**
effect on macroinvertebrate drift
mountain stream: 1072
of intermittent tropical forest stream
seasonal limnology: 291

**Population**
control
of stream insects
significance of terrestrial adult phase: 1893
density
fishes: 736
microphytoplankton: 864
nematodes: 1236, 1237
*Perca fluviatilis*: 686
zooplankton: 1770
development
*Hexarthra* spp.: 748
differentiation
*Littorina neglecta* and *L. saxatilis*: 839
*Littorina saxatilis* and *L. neglecta*: 840
distribution
*Cottus cognatus*
in lakes with and without piscivores: 716
dynamics
*Anisomysis mixta australis: 517*
*Bosmina longirostris*: 1079
*Brachionus plicatilis*: 495
*Chilina gibbosa*: 198
chironomids
Lake Balaton (Hungary): 420
copepods
light effects: 1140
*Corbicula fluminea*
St. Clair River (USA, Michigan): 559
*Dreissena polymorpha*
Lake St. Clair (Canada/USA): 1023
phyto- and zooplankton
African reservoir: 1441
*Pharyngochromis darlingi: 795*
phototrophic bacteria
Lake Banyoles (Spain): 591
*Paramesopodopsis rufa*: 517
planktonic rotifers
Lough Neagh (Ireland): 51
*Pseudocrenilabrus philander*: 795
*Rutilus rutilus*: 1325
*Tenagomysis tasmaniae*: 517
*Tubifex tubifex* model: 192
*Tubificoides amplivasatus*: 492
*Unionicola intermedia*: 92
ecology
exoedicerotid amphipods
sandy beaches, Sydney (Australia): 847
fish
tropical ricefields (Malaysia): 33
*Micronecta scutellaris*
Lake Naivasha (Kenya): 315
genetics
*Artemia*: 2
*Littorina saxatilis*: 841
*Sagartia elegans*: 1563
tubificid oligochaetes: 1819
growth
*Iridaea splendens*: 52
*Synchaeta oblonga*: 1890
Rotifera
effect of salinity and temperature: 1147
regulation
*Tubifex tubifex*
cohort cultures: 191
structure
bdelloid rotifer clones: 1421
*Brachionus plicatilis*: 1885
*Keratella cochlearis*: 584
macroalgal assemblages: 1520
*Niphargus rhenorhodanensis: 1080*
*Perca fluviatilis*: 1000
*Proasellus valdensis*: 1080
*Sagartia elegans*
effect of asexual reproduction: 1563
*Salmo trutta*
effects of angling: 214
subtidal sea anemones
coasts of California and Gulf of Maine (USA): 723
*Zoanthus solanderi*: 872
*Zoanthus sociatus: 872*

**Porcellio**
*scaber*
influence on litter breakdown: 1825

**Pore water**
chemistry of inorganic nitrogen compounds: 1841
circulation
effect on rotifer distribution: 1661
flowlines
convective currents: 1832
nitrogen nutrients
relation to microphytobenthic communities: 1418
nutrient concentrations: 1243
nutrient regeneration: 102
profiles
benthic fluxes of heavy metals: 311
seasonal variations
in relation to pH and phosphate: 1615

**Porifera**
*Anheteromeyenia ryderi*
survival of gemmules: 513
*Eunapius fragilis*
gemmules
salinity tolerance: 512
freshwater sponges
from Panamá: 1351
*Spingilla lacustris*
gemmules
cold tolerance: 514
life cycle: 1050

**Porphyra**
conchospore production
seasonal occurrence: 1792
occurrence along Namibian coast: 1159
*perforata* complex
systematics: 999
protoplast isolation and fusion: 570
*yezoensis*
self-fertilization: 1569

**Portuguese man-o-war**
*Physalia physalis*
envenomation: 247

**Positional information**
planarian regeneration
role of melatonin: 1879

**Post-Cretaceous**
hydromedusan distribution: 1632

**Postembryonic development**
copepodids in Tisbidimorpha: 373
nauplii
*Neodiaptomus lindbergi*: 421
*Paralabidocera antarctica*: 1686
*Phyllodiaptomus blanci*: 1396
*Scutellidium hippolytes*: 375
*Thalestris longimana*: 374

**Postembryonic duration**
Copepoda
review: 727
*Eucyclops serrulatus*
*Cyclops strenuus*
effect of temperature: 1037

**Postglacial sediments**
Lake Mondsee (Upper Austria)
history of *Eubosmina*: 1224

**Postimpoundment study**
fish production
Warta River (central Poland): 1317

**Postindustrial sediments**
Skagerrak (North Sea)
porewater chemistry: 1841

**Potamogeton**
*crispus*
decomposition
effects of chlorine and ammonia: 1233
*pectinatus*
growth: 1769
invertebrate associations: 140

**Potassium**
concentration
undischarged tentacular nematocysts
*Hydra vulgaris*: 606

**Power peaking**
fluctuations
effect on invertebrate community: 1724

**Pragmatism**
in choice and implementation of bioassays: 262

**Prairie lakes**
Lake Christina (USA, Minnesota)
plankton and turbidity
response to biomanipulation: 717

**Prairie streams**
Texas (USA)
benthic POM dynamics: 753
stream flow and POM concentrations: 754

**Prawn**
culture in mangroves: 1389

**Precision**
of sampling programme
aquatic invertebrates: 309

**Predation risk**
from colouration
in ostracods: 1098

**Predation**
among pelagic cnidarians and ctenophores
review: 1370
by *Acanthaster planci*: 265
by bacteriophage
stimulation of bacterial cytokinesis: 958
by benthic macroinvertebrates: 207
by birds: 1033, 1857
by crocodiles: 1033
by *Catostomus commersoni*: 1006
by *Chaoborus* larvae: 306, 733, 933
by cladocerans: 1091
by *Cottus cognatus*: 369
by *Crangonyx shoemakeri*: 1535
by cyclopoid copepods: 1445
by *Dytiscus latissimus* larvae: 843
by *Dytiscus circumcinctus* larvae: 843
by *Enallagma civile* nymphs
effect of acidic pH: 641
by *Entacmaea medusivora* n.sp.: 509
by fish
effect on chironomid larval community: 643
effect on density of benthic invertebrates: 1178
effect on occurrence of *Tropodiaptomus*: 1018
effect on slimy sculpin populations: 716
effect on structure of amphipod assemblage: 1469
sex-specific susceptibility in *Eudiaptomus*: 1667
by flatworms: 175
by gizzard shad
structure of plankton communities: 358

by lake trout and round whitefish
effect on size, distribution and density of benthic invertebrates: 1133
by lake trout
effect on slimy sculpin abundance and growth: 1110
by largemouth bass: 366
by *Leptodora kindti*: 747
by *Mertensia ovum*: 1669
by *Mesocyclops* spp.: 821, 1086
by Nile Perch: 937
by *Neomysis* vs *Chaoborus*
community level effects: 705
by *Osmerus eperlanus*: 955
by pelagic water mites: 250, 1093
by *Perca fluviatilis*: 488
by *Rutilus rutilus*
effect on cladoceran body size: 1324
by *Salvelinus namaycush*: 1109
by *Tropocyclops prasinus: 734*
by typhloplanid flatworms: 177
by *Utricularia*: 734
effect on catch in activity traps: 482
effect on meio- and macrofaunal density: 1362
effect on microbial colonisation dynamics: 1105
effect on population structure of sea anemones: 723
effect on spatial dynamics of benthic invertebrates: 960
on and by Turbellaria: 1444
on *Artemia*: 1884
on *Daphnia*: 1343
on cnidarians: 73
on *Euchlanis dilatata lucksiana*: 474
on *Limnodrilus hoffmeisteri*: 876
on midwater hydro- and scyphozoan medusae: 968
on *Phagocata vitta*: 67
on *Pleuronectes platessa*: 1342
on *Trapezia* crabs: 1436
on zooplankton: 188, 623, 1742

**Predator avoidance**
zooplankton
diel vertical migration: 188
young-of-year lake trout
effect on growth: 1109

**Predator-prey interaction**
*Asplanchna-Brachionus*: 1639
carp-tubificids: 1432
*Chaoborus-Daphnia*
characterization of kairomone: 1305
Cladocera-Rotifera
review of Russian works: 1091
corixids-chironomids: 1295
fish-*Branchiura*: 442
fish-zooplankton: 638, 961
hippopodiid siphonores-ostracods: 1369
*Erpobdella-Limnodrilus*: 876
*Mesocyclops-Brachionus*: 1086
*Mesocyclops-Ceriodaphnia*: 1086

**Predictability**
copepod postembryonic durations
review: 727
streamflow and POM concentration: 754

**Prediction**
application of bioassays
review: 1046
of speciation of copper
by conditional stability constants: 613
of water temperatures
from air temperatures: 1022

**Preface**
to intertidal and subtidal
macroalgal assemblages: 56
to Salt Lakes and Salinity: 1852
to Upper Great Lakes Connecting Channels
environmental assessment: 1191

**Preimpoundment studies**
fish production
Warta River (Poland): 1318
water quality evaluation
Dobczyce reservoir (Poland): 534

**Preservation**
labelled cladocerans
in formalin: 1182

**Pressure**
relation to cnida discharge
*Anemonia viridis*: 1703

**Prey**
capture
in reef corals: 1543
*Daphnia magna*
*Chaoborus* predation: 488
density
foraging modes in odonate larvae: 844
features
cyclopoid predation on zooplankton: 1445
preference
*Macquaria ambigua* larvae: 70
selection
*Chaoborus* larvae: 933
cyprinid fish: 1098
interaction between stone loach and bullhead: 1823
*Leptodora kindti*: 747
*Mesocyclops edax*: 821
*Mirogrex terraesanctae* larvae: 83
*Salvelinus fontinalis*: 788
*Streptocephalus proboscideus*: 1136
size
effect on reactive distance
largemouth bass foraging: 366
vulnerability
in zooplankton communities: 1843
to *Chaoborus* predation: 1648

**Priapulida**
*Halicryptus spinulosus*
body wall
ultrastructure: 823
histology
relation to hydrogen sulphide resistance: 1265

**Primary production**
Canadian Shield lakes: 947
effect of contaminated sediments: 1157
effect of suspended sediments
method: 1197
effect of tributyltin: 996
effect on mussel growth and condition: 1597
estimation
incubator technique: 1434
Ezequiel Ramos Mexía Reservoir (Argentina): 1059
fish culture pond: 1679
Florida lakes (USA): 123
Hartbeespoort Dam (South Africa): 1440
Lake Awasa (Ethiopia): 892
Lake Erken (Sweden): 1336
Lake 817 (Canada, Newfoundland): 1472
Lake Manzala (Egypt): 891
Lake Sevan (Armenia): 1307
Lake St. Clair (Canada/USA): 1194
Lake Tahoe (USA): 826
Mahoney Lake (Canada, British Columbia): 696
mangrove swamp
Kakinada coast (India): 1550
N.W. Sri Lankan coast: 41
Oosterschelde (The Netherlands): 1826
Oosterschelde estuary (S.W. Netherlands): 1530
picoplankton contribution
tropical waters (Brazil): 1692
relationship with bacterial secondary production
Embalse del Río III Reservoir (Argentina): 1060
response to phosphorus discharges: 853
Rhenosterkop Dam (South Africa): 1441
River Danube (Hungary): 200
role of nutrients vs physical factors
Modder River (South Africa): 665
Saguenay Fjord (Canada): 294
Sambhar and Didwana lakes (India): 815
significance of extracellular dissolved carbon: 1439
soft bottom benthos: 319
southern Ontario streams (Canada): 1456
West Point Lake (USA): 121
Wolderwijd (The Netherlands): 139
zooxanthellae
hermatypic corals: 1713

**Principal Component Analysis**
phytoplankton association persistence: 774
quantitative shell characters
*Littorina saxatilis* vs *L. neglecta*: 839

**Prionocypris**
*aragonica*
salinity tolerance: 1495

**Priorities**
in environmental research and management
overview: 532

**Proasellus**
population structure: 1080

**Proboscis**
*Mesorhynchus terminostylis*
anatomy and ultrastructure: 401

**Procambarus**
*clarkii*
breeding biology: 1274

**Process modelling**
lake management
use of morphometric data: 1717

**Processing**
*Gracilaria*: 1459
organic matter
wetland and littoral zones: 1830

**Prochilodus**
*lineatus*
dominanance in lentic environments
Paraná River (Argentina): 343
*platensis*
density
La Cuarentena Lagoon (Argentina): 344

**Prochlorothrix**
*hollandica*
light-limited growth
model: 633
photosynthetic efficiency: 1434
steady-state growth kinetics: 1433
dominance
relation to detritus: 630

**Procladius**
density decline
analysis of biotic and abiotic factors: 971

**Produced water**
from oil/gas field
effect on macrobenthos: 1222

**Product utilization**
*Gracilaria*
Saldanha Bay (South Africa): 1459

**Production cost**
ß-carotene
from *Dunaliella salina*: 1181

**Productivity**
*Acanthocyclops robustus*: 368
*Anguilla anguilla*
English chalk stream: 1052
bacteria

humic lakes: 749, 1665
Mississippi River (USA): 743
benthic invertebrates
Lake Thingvallavatn (Iceland): 997
*Brachionus angularis*
effect of temperature: 1807
*Brachionus plicatilis*
intensive cultures: 816
*Cambarus sciotensis*: 1451
carp
relation to tubificid biomass: 1432
*Chilina gibbosa*: 198
Chironomidae
relationship with emergence: 808
Rivers Widawka and Grabia (Poland): 670
Chlorophyta
in relation to nutrients: 1001
Copepoda
Gulf of St. Lawrence (Canada): 313
*Cyprinus carpio*
effect of argulosis-saprolegniasis: 1579
*Daphnia lumholtzi*
Lake Samsonvale (Australia): 897
*Egeria radiata*
Cross River system (Nigeria): 1174
*Eichhornia crassipes*
Lake Apopka (USA, Florida): 1392
*Enchytraeus variatus*: 203
fish
rivers and lakes
Sierra Leone (West Africa): 805
fish and zooplankton
Tjeukemeer (The Netherlands): 1775
*Gelidium* spp.: 856, 1501
*Hexagenia nymphs*
Upper Great Lakes: 469
*Nais* spp.
intrinsic and extrinsic variables: 857
nano- and picoplankton
Bay of Villefranche sur Mer
(N.W. Mediterranean): 1564
*Neomysis mercedis*
Kennedy and Muriel Lakes (Canada): 341
*Orconectes sanbornii sanbornii: 1451*
*Orconectes virilis*: 1451
organic matter
role of bacterioplankton
eastern Pacific Ocean: 1621
*Pharyngochromis darlingi*
Lake Kariba: 795
phytoplankton
El Sol (Mexico): 131
Pyramid Lake (USA): 978
Saguenay Fjord (Canada): 294
Protozoa
in chalk streams: 1589
*Pseudocrenilabrus philander*
Lake Kariba: 795
Rotifera
Lough Neagh (Ireland): 51
method: 1310
seaweed
effect of light: 1114
Lake Grevelingen (SW Netherlands): 362
stream fauna
SW Australia: 246
*Streptoceplalus macrourus*
culture: 1150
Tubificidae
effect of carp predation: 1432

**Profiles**
water quality
Bremer River (Australia): 1644

**Profundal**
Chironomidae
phenology and distribution
Starnberger See (Germany): 607
meiobenthos
as environmental indicators: 1503
relation to eutrophication: 1504
zoobenthos density decline in sediments
Lake Mendota (USA, Wisconsin): 971

**Progress in Littorinid and Muricid Biology**
epilogue: 1380

**Prolecithophora**
*Allostoma* sp.
photoreceptors
ultrastructure: 962

**Prolysis mass spectra**
litter decomposition: 157

**Propagation**
*Ulvaria oxysperma*: 870

**Proportion regulation**
*Dugesia* regeneration
effect of timing of cutting: 1121

**Proseriata**
nervous system
evidence of catecholamines: 1412
ultrastructure: 1411

**Prosimulium**
*martini*
response to phosphorus enrichment
Kuparuk River (USA, Alaska): 755

**Prosobranchia**
colonisation of Belgian breakwaters
by *Littorina saxatilis*: 841
*Littorina neglecta*
as morph of *Littorina saxatilis*: 839
*Littorina saxatilis* vs *L. neglecta*
genetic variation: 840
*Littorina saxatilis*-complex
hybridization: 1810

**Protein electrophoresis**
rotifers
time of aging: 272

**Protein Kinase C**
role in transdifferentiation
*Podocoryne carnea*: 942

**Protein**
biosynthesis
phytoplankton diel growth cycle: 1777
content
Adriatic seaweeds: 1202
rotifers: 674
exocellulase activity: 1806

**Protista**
primary succession: 1106
community
temporary aquatic islands: 1105

**Protonemura spp.**
egg development
temperature dependence variation: 1068

**Protonephridia**
Platyhelminthes
evolution: 1453

**Protopalythoa**
gametogenesis and spawning: 1474

**Protoplast**
culture
*Gelidium* spp.: 590
from seaweed digestion by amoeba: 1352
from fibrillar cell wall
*Gracilaria verrucosa*: 128
isolation and fusion
*Porphyra*: 570
*Ulva pertusa*
bioflavor production: 568

**Protozoa**
*Colpidium* and *Dexiostoma*
taxonomic revision: 587
*Colpidium campylum*
bioassay: 425
communities
chalk streams: 1589
Llobregat River (Spain, Bracelona): 644
community composition
Ogeechee River and Black Creek (USA): 271
ecology
Rio Grande Reservoir (Brazil): 104
epizootic on freshwater branchiopods: 1700
grazing on algae: 1487
growth: 1730
microflagellates
Kentucky Lake (USA): 1360

**Protozooplankton**
of Esthwaite (U.K., Cumbria)
abundance and distribution: 975
distribution in hypolimnion: 974

**Pseudocrenilabrus**
*philander*
population dynamics
Lake Kariba: 795

**Pseudoniphargus**
*candelariae* n.sp.: 1490

**Psilotreta sp.**
grazing influence
on periphyton communities: 874

**Pterocladia**
*capillacea*
agar quality and yield: 610
elemental composition: 610
spp.
growth: 553
harvesting: 1521
mass culture: 1026
taxonomic problems: 1498, 1499

**Pterocladiastrum**
taxonomic problems: 1499

**Pterygophora**
*californica*
effect of heated effluents: 1247

**Ptychocheilus**
*lucius*
salinity tolerance: 1229

**Publications**
of D.G. Frey: 1833
of E.S. Deevey: 1601
of Dr. Marcus: 351
Water Quality Research Loosdrecht Lakes (The Netherlands)
workgroup
1983-present: 1750

**Pulmonata**
*Chilina gibbosa*
population dynamics: 198
production: 198
spatial distribution
ditch: 268

**Pulp mill effluents**
effect on river ecology: 722
effect on *Oncorhynchus*: 172
effect on water quality: 648

**Pulverized fuel ash**
leachates
toxic effects on *Lemna minor*: 831

**Pupae**
of *Simulium*
flow patterns: 499

**Purple phototrophic sulphur bacteria**
stratification
saline meromictic lake: 696

**Pycnopsyche**
leaf litter colonisation: 168

**Pyrrhosoma**
*nymphula*
emergence
ponds (northern England): 658

**QEM-SEM technique**
rapid mineral analysis of sediments: 1435

**Qualitative and quantitative aspects**
epiphytic Amphipoda
Lake Balaton (Hungary): 1213

**Quantitative microscopy**
diet description: 19

**Quantitative Structure-Activity Relationship**
assessment of environmental pollution: 1836

**Quantum requirement**
*Chlorella*
diurnal variation
effect of dynamic light regimes: 930

**Quarrying**
catchment disturbance
effect on diversity of Ephemeroptera: 684

**$^{226}$Ra**
accumulation by freshwater turtles
effect of Ca and Mg concentrations: 830

**Radiocarbon**
dating
sediment chronology: 1273

**Radioimmunoassay**
melatonin
endogenous to *Dugesia*: 1879

**Radiometric chronology**
major paleohydrological events
NW Africa: 542

**Radionuclide inventories**
sediment cores
Ponsonby Tarn (U.K., Cumbria): 195
soil cores
Llyn Llygad Rheidol catchment (U.K.): 194

**Radionuclides**
Chernobyl fallout
distribution in sediments
Lake Varese (N. Italy): 1367
contaminant cycling processes
Lakes Biel and Zürich (Switzerland): 1502
sedimentation and distribution
bottom sediments
Lake Päijänne (Finland): 865
use as tracer
interpretation of mixed sediment profiles: 867

**Radula**
morphology
freshwater snails: 423

**Raft culture**
*Gelidium*: 511

**Rainbow trout**
distribution in New Zealand
effect of temperature: 1537

**Rainpools**
on peat moorland
island habitats for midge larvae: 812

**Ramets**
dynamics
*Zoanthus sociatus* and *Z. solanderi*: 872

**Rana**
*temporaria* tadpoles
toxicity and biocentration
of lindane and deltamethrin: 1707

**Rastrelliger**
*kanagurta*
seasonal variation in abundance
Zanzibar coast (East Africa): 1216

**Reactive Black 5**
dye-based assay
for mannuronan 5'-epimerase: 1381

**Reactive distance**
largemouth bass foraging: 366

**Reappraisal**
taxonomy
genus *Diplopeltula*: 1779

**Rearing**
techniques
fall-fingerling Atlantic salmon: 1323

**Reciprocal averaging**
diatom data and chemical environment: 1461

**Recognition**
of prey by bactivorous ciliate
chemoattraction: 1606

**Recolonisation**
by benthic algae: 184
by benthic invertebrates: 1172

**Reconfiguration**
in seaweeds
relation to drag reduction: 68

**Recovery**
from acid waste polution
benthic algae: 184
from catchment disturbance
stream macroinvertebrate communities: 1426
from eutrophication
Lago Maggiore (Italy): 145
shallow lakes (The Netherlands): 1752
from spates
interstitial community: 435
lake phosphorus control
Loosdrecht lakes (The Netherlands): 400, 679, 1754
responses in phytoplankton
to effluent exposures: 355

**Recruitment**
*Artemia monica*
Mono Lake (USA, California): 379
*Oreochromis niloticus*
Nyanza Gulf (Lake Victoria): 609
*Pleuronectes platessa*
Swedish west coast: 1342
*Plumatella emarginata*
in riffle populations: 873
seaweed harvesting: 552, 108

**Recycling**
dissolved nitrogen pool
culture system: 1217

**Red algae**
antiviral carbohydrates: 1231

**Redescription**
*Alona diaphana*: 561
*Batracobdelloides tricarinata*: 1276
*Branchinecta granulosa*: 327
*Caprogammarus gurjanovae*: 1678
*Diaphanosoma modigliani*: 915
*Diaphanosoma senegal*: 916
*Diplopeltula indica*: 1779
*Lepadella costata*: 1547
*Neodiaptomus schmackeri*: 160
*Paracolpidium truncatum*: 587
*Plea frontalis*: 135
*Stylactaria conchicola* comb. nov.: 1221
*Tropodiaptomus lateralis*: 1018

**Redifferentiation**
of penis
*Bdellocephala brunnea*: 938

**Redistribution**
allochthonous organic material: 543
fine sediments: 132

**Redox**
potential
effect on phosphorus mobility: 1040
changes
effect of oxygen
burrows of *Callianassa subterranea*: 548
conditions in sediments
effect on ammonium release: 1773
seasonal effects on decalcification: 1789
effect of liming and biotrubation: 1598

**Redundancy analysis**
in plankton communities: 1757

**Reed**
decline
impact of shoreline algal wash
Lake Constance-Untersee (Germany): 1282

**Reef corals**
prey capture and distribution
effect of water movement: 1543

**Refinery effluent**
effect on epilithic algal communities: 1578

**Refuges**
for herbivores
biomanipulation: 1558
for large-bodied Cladocera against fish predation
Norfolk Broads (U.K.): 804

**Regeneration**
*Aurelia* scyphistomae
polyps from isolated tentacles: 984
*Porphyra*: 570
red seaweeds: 1438
Turbellaria
epidermal cells: 776
monoclonal antibodies as markers: 1455
effect of timing of cutting: 1121
head and pharynx: 1571
pharynx: 782
rate of eye formation: 23
relationship with cancerous tumor: 732
differentiation during asexual reproduction: 1296
*Ulva*: 568

**Regional antigens**
*Dugesia tigrina*
distribution: 1455

**Regional calibration**
anthropogenic acidification
clear water lakes (Canada, Newfoundland): 1539

**Regression analysis**
environmental variables vs shell length
*Crassostrea cucullata*: 1673

**Regression**
hydranths in thecate hydroids: 365

**Regulated rivers**
organic carbon dynamics
northwestern Montana (USA): 1326

**Regulated streams**
feeding habits and food resources
filter-feeding Trichoperta: 1784
oligochaete indices: 1768

**Regulation**
algal P-nutrition
effect of dissolved calcium and magnesium: 861
stream macroinvertebrate populations
effect of abiotic and biotic factors: 1457
year-class strength
*Pleuronectes platessa*: 1342

**Regulators**
extracellular enzymes
microbial detritus processing: 1205

**Rehabilitation**
English Midlands reservoirs (U.K.): 550

**Remedial measures**
extremely polluted ('hot spot') sediments: 1584
reduction of mercury levels: 50

**Remobilisation**
of nutrients
Tiber estuary (Italy): 1293

**Remote sensing**
blue-green algal blooms

magnitude and long-term periodicity: 583
mangroves along Kenyan coast: 586
water quality assessment
Loosdrecht lakes (The Netherlands): 409

**Removal**
*Anguilla anguilla*
effect on subsequent densities: 1002

**Replacement**
hydranths in thecate hydroids: 365

**Reproducibility**
algal growth curves
analysis: 186

**Reproduction**
*Actinoporus elongatus*: 320
*Alboglossiphonia polypompholyx*: 478
Anthozoa: 508
*Batrachospermum boryanum*: 697
*Boeckella*
effect of *Epistylis* infection: 1871
*Carybdea sivickisi*: 730
*Cassiopea andromeda*: 763
cladoceran spp.
effect of long-term copper exposure: 910
*Clavopsella michaeli*: 1347
*Coregonus* spp.
effect of pollution: 694
*Cyprinus carpio*: 518
*Daphnia galeata*
indirect effects of planktivorous fish: 1020
reservoir vs pond populations: 218
*Daphnia pulex*
impact of *Chaoborus*: 888
*Daphnia*
diurnal periodicity: 1545
*Dreissena polymorpha*: 687, 1023
*Dugesia bengalensis*: 12
*Eucyclops serrulatus* and *Cyclops strenuus*
effect of temperature: 1037
*Gelidium vagum*: 1124
harpacticoid meiofauna
oil-pollution effects: 181
hermatypic corals: 1868
*Indoplanorbis*
effect of low temperature: 1303
*Laminaria*
response to nutrient enrichment: 1876
*Leuciscus svallize*: 463
*Lepidurus packardi*: 16
*Micronecta scutellaris*: 315
*Moina macrocopa*
effect of algal food type: 1076
*Ostrea puelchana*: 1171
*Pelagia noctiluca*: 1460
*Porphyra* spp.: 1792
rotifers
in young ponds: 1354
salmonid fish
effect of trophic state of waters: 1189
scleractinians: 1646
*Synodontis schall*: 695
*Trapezia* crabs: 1436
*Triops granarius*: 1542
*Unionicola intermedia*: 92
zooplankton bioassay: 1119

**Reproductive bionomics**
aquatic gammaridean amphipods
review: 1479

**Reproductive isolation**
monogonont rotifers: 1604
*Artemia monica* vs *A. urmiana*: 8

**Reproductive phenology**
*Gracilaria*: 1339

**Reproductive potential**
*Perca fluviatilis*: 1000

**Reproductive strategies**
*Caprella monoceros* and *C. decipiens*: 57
*Ostrea puelchana*: 1171
*Daphnia magna* clones: 1874
*Littorina*: 1403

**Reptiles**
predation on Cnidaria
review: 73

**Reservoir effects**
water chemistry
Buffalo River (South Africa): 1299
on sediment chronology: 1273

**Reservoirs**
see different continents
phytoplankton
nutrient limitation
Upper Guadalupe River (USA, Texas): 1637

**Residual mass**
*Ceratophyllum demersum* litter: 157

**Residues**
of seaweed industry
bioconversion: 1162

**Resilience**
to recovery
Lake Loosdrecht (The Netherlands): 1754

**Resolution limit**
SEM
otolith
daily increment: 906

**Resource management**
Chesapeake Bay: 1280
freshwaters
review: 1827

lakes and rivers: 1177

**Resource partitioning**
juveniles of fish: 810
zooplanktivorous fish: 714

**Resource utilisation**
by Rotifera and Cladocera: 950

**Resource**
decline and recovery
*Gracilaria verrucosa*
Saldanha Bay (South Africa): 1459

**Respiration**
bacteria and isopods
microecosystem experiment: 1825
bacteria
effect of dissolved organic carbon: 749
benthic invertebrates
Lake Esrom (Denmark): 698
benthos
Kattegat (Sweden): 649
*Branchiura sowerbyi*
neurobehavioural specializations: 442
*Chlorella pyrenoidosa*
diurnal variation
effect of dynamic light regimes: 930
effect of light-dark cycles: 666
*Ecklonia* blades
with and without zoosporangial sori: 69
*Enallagma civile* nymphs
effect of acidic pH: 641
epilithon
tundra stream (Alaska): 209
*Neomysis integer*
effect of temperature, sex and starvation: 1820
in dark
diel changes
Laboratory Scale Enclosures: 1063
in freshwater sediments: 535
*Libellula julia*
effect of aluminum: 1448
*Orchomene plebs* and *Waldeckia obesa*
Admiralty Bay (Antarctica): 1385
plankton community
relation to size distribution and lake trophy: 21
zooplankton bioassay: 1119

**Resting eggs**
Anostraca, Notostraca and Spinicaudata
SEM morphology: 1701
*Brachionus plicatilis*
hatching and mixis: 691
size variation: 1554
Rotifera
ecology: 1471

**Restoration**
Lake Zwemlust (The Netherlands)
biomanipulation: 1744
Loosdrecht lakes (The Netherlands)
effect on zooplankton community structure: 676
reduction of phosphorus loads: 1751
research results: 679
measures
coastal lakes (SW England): 1259
fen ecosystems
Vecht River plain (The Netherlands): 106
of lakes
role of Water Quality Research Loosdrecht Lakes: 1755
re-establishment of submerged macrophytes: 1047
reduced P and N loading
effects on phytoplankton: 433
Tjeukemeer, Groote Brekken
and Slotermeer (The Netherlands): 1749

**Restriction mapping**
*Brachionus plicatilis*: 896

**Resuspension**
dynamics: 132, 133
metal release from polluted sediments: 793
modelling: 179, 797, 927
of bottom sediments
effect on algal production: 740
of fine particles
application of radionuclides: 1502
of sediment
coefficient: 585
estimation by sediment traps: 497, 693
heavy metal distribution: 1881
impact on internal phosphorus loading: 927, 1619
impact on total flux of radionuclides: 865
influence on sediment nutrient concentrations: 305
relation to nutrient cycling and trophic state: 1801
of settled algae and detritus
role of wind: 633
relation to amount of suspended matter: 244
relation to nitrogen budget: 538
role of benthivorous fish: 1125

**Retention capacity**
of stream channel
role of coarse particulate organic matter: 221

**Retention**
macrophyte debris in streams: 53

**Reticular cells**
*Dugesia dorotocephala*
phagocytosis: 1169

**Reticulate evolution**
Enchytraeidae: 324

**Retinoic acid**
effect on cyst hatching
*Thamnocephalus platyurus*: 451

**Review**
agar
structure and properties: 948
aquaculture
eastern Africa: 372
Australian freshwater biota
salt sensitivity: 724
bacterial role in sediments: 1144
bioassays
for freshwater systems: 1046
biomanipulation: 635, 964
blue-greens
suitability as food for zooplankton: 392
Chydoridae
ecology and distribution
Ireland: 449
Conchostraca
taxonomy and distribution
Yugoslavia: 1062
conservation status of tropical Asian rivers: 444
copepod post-embryonic durations: 727
*Daphnia* bioassay: 90
degradation of freshwaters: 1827
erosional processes: 405
extremely polluted ('hot spot') sediments
assessment and remedial measures: 1584
feeding in corals: 973
fine-grained sediment transport: 993
Finnish limnology: 1507
freshwater and coastal ecosystems
Ghana: 165
gammaridean and caprellidean Amphipoda
Brazil: 1795
*Hemimesochra*: 798
history of turbellarian study in Japan: 879
*Hydra* body size and bud size
physiological and evolutionary aspects: 1590
Iberian Cladocera
taxonomy: 37
*Ilyocryptus*: 1652
limnology of Ugandan saline lakes: 1203
London reservoirs
limnological management and biomanipulation: 457
morphology of photoreceptors
free-living platyhelminths: 1620
morphology, systematics and phylogeny
Turbellaria Lecithoepitheliata: 1711
neuropeptides in coelenterates: 664
principles of early ontogeny
rugose corals: 510
reproductive bionomics
aquatic gammaridean amphipods: 1479
rotifer interactions with cladocerans: 1091
toxicity testing with phytoplankton: 1193
taxonomy of *Colpidium* and *Dexiostoma*: 587

**RF-amides**
in primary polyp neurons
*Hydractinia* planulae: 1350
modulators of neuronal activity
Hydrozoa: 1630
positive nerve cells
transdifferentiation of muscle cell: 942

**Rhabdoid-forming cell**
-specific monoclonal antibody production
in *Phagocata vivida*: 1570

**Rhabdomeric pigment-cup ocelli**
*Allostoma* sp. eyes
ultrastructure: 962

**Rhenium**
accumulation
brown algae: 1875

**Rheotanytarsus**
*thailandensis* sp.n.: 1179

**Rhipidogammarus**
*rheophilus* n.sp.
Tenerife (Canary Islands): 1655

**Rhizoidal cluster**
for re-attachment of *Gelidium sesquipedale*: 1483

**Rhizophora**
*mangle*
effect of root-fouling epibionts: 481

**Rhizopoda**
ecology: 155

**Rhizostoma**
*pulmo*
nematocyst morphology: 77

**Rhodalia**
*miranda*
biogeography
south-west Atlantic: 1431

**Rhodomonas**
*lacustris*
bioassay
seasonal nutrient limitation: 105

**Rhodophyta**
see also Seaweed
agar chemical characterization
*Gelidium madagascariense*: 1143
*Gracilaria dura*: 1210
carrageenans: 353, 1348, 1437
*Chondrus crispus*
ammonium uptake: 44
distrtibution and seasonal dynamics
Preto River basin (SE Brazil): 1227
eicosanoids
new algal metabolism: 608
gel strength
*Gelidium rex*: 1082
*Gelidium pristoides*
biology and harvesting: 49

*Gelidium* spp.
field and culture studies: 1465
*Gigartina* spp.
form variation and productivity: 811
Gracilariaceae from New Zealand
dimethylated agar: 575
*Gracilaria tikvahiae*
model for nitrogen nutrition: 709
*Gracilaria verrucosa*
agar quality and yield: 989
cell-wall ultrastructrure: 1680
photosynthesis: 989
recovery
Saldanha Bay (South Africa): 1459
spermatia
viability and dissemination: 419
Strain G-16 cultivation: 169
*Gracilaria* spp.
fatty acids: 64
from Mokomoko Inlet (New Zealand): 1339
growth
*Gelidium*: 553
*Gracilaria*: 989
*Pterocladia*: 553
*Iridaea* population
simulation model: 52
Irish moss cover
relationship with *Phymatolithon*: 1306
*Lemanea fucina*
phenology
Wood River (USA, Rhode Island): 1782
*Nothogenia fastigiata*
isolation of sulphated galactants: 692
phycocolloids
*Eucheuma denticulatum*: 1158
*Gelidium madagascariense: 1158*
*Kallymenia reniformis*: 417
polymer activity
in calcification modulation: 1610
*Polysiphonia breviarticulata*
bloom: 869
*Porphyra* spp.
conchospore production and seasonality: 1792
protoplast isolation and fusion: 570
*Porphyra yezoensis*
degree of self-fertilization
estimation: 1569
spray system for re-attachment
*Gelidium sesquipedale*: 1483
taxonomy
Gelidiales: 1499
Gracilariaceae: 167, 557
life history implications: 1034
*Porphyra perforata* complex: 999
xylogalactan sulphate
*Chondria macrocarpa*: 576

**Rhodopseudomonas**
*palustris*
bloom: 251

**Rhodopsin-like proteins**
*Dugesia japonica japonica*
head: 569

**Rhopalium**
development
in *Aurelia aurita* ephyrae: 1628

**5S ribosomal RNA**
sequences
evolution of Cnidaria: 775

**Rice paddy**
mosquito breeding: 1214

**Riffle-pool**
geomorphology
distribution of stream benthos: 241

**Rift Valley lakes**
Lake Awasa (Ethiopia)
crustacean zooplankton
seasonality and abundance: 1130

**Riparian shading**
effect on macrophyte community structure
Little River (USA, North Carolina): 498

**Riparian vegetation**
effect on stream communities: 446

**Riparian zone**
ground water flow paths and water chemistry: 752
nitrate depletion rates: 339

**Risk assessment**
also see Hazard assessment
strategy for Chesapeake Bay
review: 1280
use of environmental assays: 1043

**River Continuum Concept**
Hong Kong stream communities: 446

**River**
biological effects of salinity
Australia: 724
deforestation effects: 593
delta of River Kyrönjoki (Finland)
influence of land use on sedimentation: 739
discharge
effect on macrobenthic community structure: 721
gradients
macroinvertebrate distributional patterns: 345
macroinvertebrate communities
sampling strategy: 1450
plume area
zooplankton feeding on seston: 599
regulation
threat to river ecosystem

review: 444
thermal regimes
prediction from air temperature: 1022
transport
mercury: 1663

**Riverine research**
activities
Freshwater Biological Association (U.K.): 148

**RNA-DNA**
concentrations
*Heterocapsa* sp. and *Olisthodiscus luteus*
diel variation: 138

**Rock pools**
bottom fauna
influence of Corixidae: 1295

**Rocky**
intertidal
*Samuraia tabularasa* n.gen.n.sp.: 1051
littoral
invertebrate community
effect of predation by *Cottus cognatus*: 369

**Root growth inhibition**
effect of metal toxicity: 300

**Rosacea**
nematocyst development: 1583

**Rotary tumbling**
preparation of sediment elutriates: 380

**Rotenone**
fish removal
ecological effects: 1493

**Rotifera**
abundance
Loosdrecht lakes (The Netherlands): 676
Po River (Italy): 525
*Anuraeopsis miraclei* n.sp.: 919
as live feed in aquaculture: 1011
*Asplanchna* predation
on *Brachionus calicyflorus*: 1639
associations
wetlands (Canada, Ontario): 1245
Bdelloidea
population structure: 1421
biogeography
arctic North America: 299
Balearic Islands (Mediterranean Sea ): 395
floodplain lakes of River Niger (Nigeria): 1548
Lake Awasa (Ethiopia): 1131
western Sudan: 399
brachionids
choice of substrate and habitat: 1313
*Brachionus angularis*
ecological bioenergetics: 1807
*Brachionus calyciflorus*
demography
effect of sublethal levels of endosulfan: 519
effect of pH: 1148
*Brachionus moronensis* n.sp.: 936
*Brachionus plicatilis*
biomass and elemental composition: 1882
ecological genetics: 1885
feeding kinetics: 918
life history characteristics: 917
mass culture: 1217
molecular genetics: 896
resting egg hatching and mixis: 691
resting egg size variation: 1554
tolerance to low oxygen: 495
*Brachionus postcurvatus* n.sp.: 936
*Brachionus urceolaris reductispinis* n.ssp. 936
colonisation of young ponds: 1354
communities
acid-stressed lakes (USA, Maine): 222
artificial crater lake (Belgium): 183
Balearic Islands (Mediterranean Sea): 395
Polish lakes: 1378
saline waters (Ethiopia): 653
Tasmania: 1566
competition
*Synchaeta oblonga* vs *Scapholeberis kingi*: 616
composition
arctic North America: 299
floodplain lakes of River Niger (Nigeria): 1548
high mountain lakes and ponds (Spain): 1161
Lake Awasa (Ethiopia): 1131
western Sudan: 399
*Dipleuchlanis ornata* n.sp.: 1546
effect of salinity and temperature
on life history characteristics: 1147
eggs
vulnerability to cyclopoid predation: 1445
epizoic and parasitic forms: 1097
*Euchlanis dilatata*
oviposition behaviour: 1805
*Euchlanis dilatata lucksiana*
excretion of phosphorus and nitrogen: 677
*Euchlanis semicarinata* n.sp.: 1546
feeding behaviour
Loosdrecht lakes (The Netherlands): 678
from arctic LTER lakes: 1464
from Mali (West Africa): 398
from Turkey: 1547
*Hexarthra* spp.
population development: 748
horizontal distribution
*Keratella cochlearis: 1512*
*Polyarthra vulgaris*: 1512
individual dry weight estimation: 1310
interactions with Cladocera: 1091
*Itura deridderae* n.sp.: 1546
*Kellicottia longispina*
morphological variation: 468

grazing and assimilation: 954
*Keratella cochlearis*
population dynamics: 584
grazing and assimilation: 954
*Keratella quadrata*
grazing and assimilation: 954
*Lecane dumonti* n.sp.: 1546
*Lecane nigeriensis* n.sp.: 1546
*Lecane nwadiaroi* n.sp.: 1546
*Lecane simonneae* n.sp.: 1546
*Lecane stichoclysta* n.sp.: 1546
*Lecane sylviae* n.sp.: 1546
*Lepadella berzensi* n.sp.: 1546
*Lepadella discoidea* n.sp.: 1546
*Lepadella (Xenolepadella) curvicaudata* n.sp.: 1731
life cycle studies: 456
*Lophocharis kutikovae* n.sp.: 1146
*Lophocharis turanica* n.sp.: 1146
*Macrotrachela quadricornifera*
isoenzymatic patterns: 1289
life history traits: 1420
occurrence
in relation to oxygen content: 153
in relation to temperature and oxygen: 1139
in relation to trophic degree: 152
in relation to water colour: 154
of estuarine Suape (Brazil, Pernambuco): 1230
phylogenetic relationships: 1800
predators
*Chaoborus*: 733
*Mesocyclops* spp.: 1086
production
Lough Neagh (Ireland)
protein, carbohydrate and lipid analysis: 674
protein patterns: 272
spatial and resource utilisation
comparison with Cladocera: 950
*Squatinella lunata* n.sp.: 1546
systematics
*Filinia longiseta - terminalis* complex: 1471
monogonont rotifers: 1604
*Notholca* spp.: 769
modern methodology: 920
*Testudinella*
from northeastern India: 1559
*Trichocerca kostei* n.sp.: 1546
ultrastructure
mastax: 1064
skeletal muscles and innervation: 321
trophi preparation method: 1494
vertical migration
*Hexarthra bulgarica*: 275

**Round robin testing**
microplate toxicity bioassay
*Selenastrum capricornutum*: 1698

**RuBPcase**
activity
between *Gracilaria conferta*
and *G. verrucosa*: 989

**Rugosa**
early ontogeny principles
review: 510

**Ruppia**
*drepanensis*
pigment estimation and photosynthesis: 589

**Rutilus**
*rutilus*
discrimination of populations: 208
effect on phytoplankton productivity and biomass: 780
impact on internal nutrient loading: 781
impact on sedimentation: 781
impact on water quality: 781
indirect effects on growth
and reproduction of *Daphnia*: 1020
population cycle
Alderfen Broad (eastern England): 1325
size-selective predation on *Daphnia*: 1324

**Sagittocysts**
acoel flatworms
fine structure and function: 1873
phylogenetic significance: 1049

**Salamanders**
effect of pH decline
breeding ponds: 943

**Saline**
lakes
Basotu Lake District (Tanzania)
biogeochemical evolution: 894
Bolivian Altiplano
diatoms and water chemistry: 1555
Cariboo Plateau (Canada, British Columbia)
carbonate precipitation and brine evolution: 1407
Dead Sea
nutrients in pore water: 1243
Lake Gallocanta (Aragón, NE Spain)
hydrogeochemistry: 330
Lake Magadi (Kenya)
diatom assemblages
taphonomy and diagenesis: 109
Lake Tebenquiche (Chile)
physical-chemical features: 1891
Mahoney Lake (Canada, British Columbia)
autumnal mixing: 1808
microstratification: 1249
production and decomposition: 696
Mono Lake (USA, California)
*Artemia monica*
cyst production and recruitment: 379
of China and Mongolia
limnological overview: 1850
of Iberian Peninsula (Spain)
ostracod distribution patterns: 98
salinity tolerance of ostracods: 1495
of Seewinkel (eastern Austria)
chemistry and crustacean zooplankton: 1137
of southern Africa
chemical and biological features: 1541
geographical distribution: 1541
of Spain
Anostraca, Cladocera and Copepoda
distribution: 36
of Uganda (Western Rift Valley)
limnology
review: 1203
prairie lakes (Canada, Alberta/Saskatchewan)
littoral benthic fauna
distribution and abundance: 702
Pyramid Lake (USA, Nevada)
*Nodularia spumigena* blooms: 583
salt lakes of District Victoria (Australia)
fauna
influence of salinity: 1853
Sambhar and Didwana lakes (India, Rajasthan)
comparative limnology: 815
river system (southwestern Australia)
macroinvertebrate community structure: 240
stream
fish and macroinvertebrate communities
structure and function: 1573

**Salinity**
decrease
effect on biological community
Great Salt Lake (USA, Utah): 1649
environmental changes
Lake Kinneret (Israel): 637
effect on acute copper toxicity to fish: 245
effect on *Artemia* distribution: 1884
effect on *Artemia* survival in culture: 115
effect on development of *Hexarthra* spp.: 748
effect on dissolved phosphate concentration and sediment-water interchange: 318
effect on distribution of phytoplankton: 1278
effect on distribution of zooplankton: 1675
effect of evaporative concentration of ions: 1203
effects on freshwater biota: 724
effect on grazing pressure of littorinid snails: 1251
effect on heavy metal mobility and bioavailability: 260
effect on life-history traits of gammarideans: 1479
effect on longitudinal distribution of macroinvertebrates
Blackwood and Glenelg Rivers (Australia): 1855
effect on oxygen consumption rates
*Fundulus catenatus*: 1715
*Phoxinus erythrogaster*: 1715
effect on photosynthetic rate
*Dunaliella parva*: 837
effect on plankton distribution: 815
effect on rotifers
diversity and community structure: 653
life history: 1147
effect on size of resting eggs
*Brachionus plicatilis*: 1554
fluctuations
saline lakes (Greenland): 1851
regime
inferred from Sr and Mg contents
of ostracod shells: 45
scale
determinant of salt lake fauna: 1853
tolerance
Cladocera: 26
diatoms: 1475
fish: 1847
freshwater Cichlidae: 39
gemmules of *Eunapius fragilis*: 512
ostracods: 1495
*Ptychocheilus lucius*: 1229

**Salinization**
Aral Sea
long-term ecosystem changes: 27
Blackwood River and Glenelg River (Australia)
longitudinal distribution of marcroinvertebrates: 1855

streams and rivers (western Australia)
effect on macroinvertebrate community structure: 240

**SALMF-amide**
immuno reactivity
in *Macrostomum* nervous system: 1406

**Salmo**
*salar*
fall-fingerling in lakes
evaluation of quality: 1323
newly-emerged fish
territory size and distribution: 685
*trutta*
feeding behaviour: 185
population structure
effects of angling: 214
radio-Cesium contamination: 1007

**Salmonidae**
eggs
real vs artificial
physical properties: 359
survival and hatching
effect of mechanical shock: 360
reproduction
effect of trophic state of waters: 1189
*Salmo trutta* and *S. salar* juveniles
interactions with *Anguilla anguilla*: 1052

**Salt lakes**
editor's preface: 1852
Lake Eyre South (south-central Australia)
diatom assemblage: 178
Lake Fuente de Pierdra (Spain)
*Ruppia drepanensis*
pigment estimation and photosynthesis: 589
of Greenland
physical, chemical and biological features: 1851
of Victoria (Australia)
*Daphniopsis quadrangulus* n.sp.: 1552
on Bolivian plateau
ionic composition and salinity
inferred from fossil diatoms: 1461

**Salt tolerance**
freshwater biota
saline lakes (Greenland): 1851

**Salt transport**
effect of vertical shear
stratified mangrove estuary: 1732

**Salt works (ponds)**
algal microflora
species composition: 31

**Salvelinus**
*alpinus*
radio-Cesium contamination: 1007
*fontinalis*
food selection: 788
*namaycush*
predation on mulluscs: 1133

**Sampling**
inadequacy of gears
underestimation of sediment organic content
in *Callichirus* burrows: 1765
of stream benthos
time cost
regression models: 309

**Sampling methods**
fish population size estimation: 736
minnow traps: 736
interstitial water collection
'new' sampler: 1834
invertebrate drift
triple net drift sampler: 1587
mayfly nymphs
colonisation sampler: 617
macroinvertebrate community structure
Surber vs kick sampling: 1656
microorganisms
syringe samplers: 598
*Perca fluviatilis*
mark-recapture technique: 686
plankton
moorable, automated sampler: 990
comments: 1322
seagrass-dwelling harpacticoid copepods
by intrashoot distributions: 1814
sediment
Ekman grabs sampling performance
design improvements: 180
sediment sampling evaluation
new weighting function and index of reliability: 537
water
transparent sampler: 1510
water sampling through thick ice
access pipes: 899
zooplankton
nets and Schindler trap: 1478

**Sampling strategy**
for estimation of sedimentary pigments: 756
for macroinvertebrate communities
running waters: 1450

**Samuraia n.gen.**
*tabularasa* n.sp.
Gulf of California (Mexico): 1051

**Sand dune lake**
Carter Lake (USA, Oregon)
benthic macroinvertebrate community: 1862

**Sand size**
fraction
relationship with dispersion: 1595

**Sandhoppers**
local distributions
west coast of Tasmania: 1425

**Saprobic**
rotifers
Lake Numasawa (Japan): 1661

**Saprobity**
canals and lakes
Rijnland area (The Netherlands)
historical vs recent data: 901

**Saprolegniasis**
effect on growth and production
of *Cyprinus carpio*: 1579

**Sarcodina**
abundance, composition and distribution: 104

**Sargassum bed**
colonisation of artificial and natural habitats
by epifauna: 466
maternal care for juveniles
in *Caprella monoceros* and *C. decipiens*: 57

**Sargassum**
*muticum*
canopy characteristics: 362
ecology: 15
sp.
seasonality of standing crop: 1726
settlement on coastal structures: 1811

**Satiation**
effect on vertical distribution
*Mesostoma* sp.: 397

**Scandium**
accumulation
aquatic bryophytes: 1511

**Scapholeberis**
competitive interactions with *Synchaeta*: 616
*armata*
gamogenesis
induction by photoperiod and temperature: 146

**Scarification**
effect on water quality
forest brooks: 22

**Scenedesmus**
growth curves
accuracy and reproducibility: 186

**Schindler trap**
collecting efficiency
zooplankton: 1478

**Schistosoma**
*intercalatum*
human schistosomiasis: 235
sp.
snail intermediate hosts
from Yemen Arab Republic: 24

**Schistosomiasis**
freshwater snails
food selection: 1029
intermediate host
*Indoplanorbis exustus*: 1303

**Science**
impact on resource management: 1702

**Scleractinia**
*Favia favus* and *Platygyra lamellina*
larval development and survivorship: 1572
faviid species
spawning in Bermuda: 1868
*Leptoseris fragilis*
PAR amplification mechanisms: 1523
spermatozoa
morphology: 1646

**Sclerocypris**
*tuberculata*
description of male: 1071

**Scombridae**
*Rastrelliger kanagurta*
seasonal variation in abundance: 1216

**'Scope for growth'**
*Gammarus pulex*
effct of Zn and low pH: 1226

**Scorpaeniformes**
*Aspitrigla cuculus*
feeding habits: 1164

**Scourfieldia**
vertical distribution
stratified humic lake: 72

**Scrobicularia**
*plana*
metal accumulation: 297

**SCUBA divers**
for odometre operation
underwater transects: 1184

**Sculpin**
predation on caddis larval cases: 842

**Scums**
of *Microcystis aeruginosa*
causative factors: 1887

**Scutellidium**
*hippolytes*
naupliar development: 375

**Scyphistomae**
*Aurelia aurita*
polyp regeneration from isolated tentacles: 984

**Scyphomedusae**
coronate medusae
polyp tubes
taxonomic characters: 825
*Cyanea*
taxonomy and biogeography: 224
distribution and behaviour
Nolrth Atlantic: 968
intraguild predation: 1370
oocyte development: 78
*Pelagia noctiluca*
reproduction: 1460
nematocyst morphology: 77
*Rhizostoma pulmo*
nematocyst morphology: 77
evolution
5S ribosomal RNA: 775

**Sea anemone**
*Actinia equina*
aggression
experimental habituation: 212
*Anthopleura asiatica* clones
gonad development: 567
*Sagartia elegans*
asexual reproduction: 1563
*Calliactis parasitica* and *Aiptasia mutabilis*
nematocyst discharge: 1485
*Calliactis tricolor*
symbiosis with *Dardanus* and *Pagurus*: 232
chemical and mechanical stimuli
response of SS1 nerve net: 1112
coasts of California and Gulf of Maine (USA)
comparative ecology: 723
nematocyst terminology
historical review: 489
systematics
use of molecular characters: 1103

**Sea lamprey**
nests
efect on porewater flowlines: 1832

**Sea nettle**
*Chrysaora quinquecirrha*
envenomation: 247

**Sea otters**
interaction with sea urchins
effect on algal assemblage structrure: 551

**Sea urchin**
grazing
effect on macroalgal assemblages: 551, 1520
ingestion of seaweeds
seaweed survival: 1269

**Seagrass**
ecology
Arabian Gulf coast: 1364
role in heavy metal cycling: 1015
zonation and succession: 342
leaf-dwelling harpacticoids: 1814

**Seagrass epiphytes**
hydroids
growth patterns: 792

**Season**
effect on *Anabaena* morphology: 1096

**Seasonal and temporal distribution**
*Chironex fleckeri* (Australia): 729

**Seasonal changes**
abundance
*Rastrelliger kanagurta*
Zanzibar coast: 1216
*Anguilla anguilla* density
Cantabrian stream: 1002
bacterial community
marine subantarctic area: 411
benthic invertebrate communities
Ardèche River (France): 436
carrageenans
*Gigartina skottsbergii*: 1348
density of Ephemeroptera
effect of flood: 684
dissolved free amino acid
and DOC concentration: 1440
flagellates and ciliates
Lake Sobygaard (Denmark): 1328
hyporheic fauna: 1111
microcrustacean and rotifer communities
Malaysian ricefields: 32
N:P ratios
eutrophic lakes (Canada, Manitoba): 107
nutrients and productivity
Pyramid Lake (USA): 978
nutrients
Thau Lagoon (France): 1340
particulate hydrocarbons
Lake Geneva (France/Switzerland): 1538
pore water
in relation to pH and phosphate: 1615
phytoplankton
diversity and composition
effect of intermediate disturbance: 774
primary production
Lake Awasa (Ethiopia): 892
volumes
Florida lakes (USA): 356
radio-Cesium contamination
*Salmo trutta* and *Salvelinus alpinus*: 1007
Rhodophyta
Preto River basin (Brazil): 1227
river invertebrates: 946
sorbed phosphorus fraction of sediment
Lake Sobygaard (Denmark): 1616

*Tenagomysis tasmaniae*, *Anisomysis mixta australis*, *Paramesopodopsis rufa*
population dynamics: 517
trophic interactions
Tjeukemeer (The Netherlands): 1775
*Unionicola intermedia*: 92
water chemistry
Kashmir lakes (India): 921
zooplankton
Azibo reservoir (Portugal): 1762

**Seasonal coupling**
phyto- and bacterioplankton
Lake Créteil (France): 596

**Seasonal cycle**
*Thermocyclops crassus*
Gronne Lake (Germany): 1038

**Seasonal dynamics**
bacterial nitrification
lower River Rhine (The Netherlands): 199

**Seasonal succession**
Cladocera
Reggio Emilia ricefield (Italy): 524
phytoplankton
Eau Galle Reservoir (USA, Wisconsin): 903
effect of physico-chemical variables
Mondsee (Austria): 432
impact of disturbance: 303, 1723
in relation ammonium uptake rates: 1308
Lake Balaton (Hungary): 1288
Tavropos Reservoir (central Greece): 1186
zooplankton
effect of invertebrate predation: 951

**Seasonality**
bacterioplankton
Lake Créteil (France): 595
*Batrachospermum boryanum*
Chipuxet River (USA, Rhode Island): 697
benthic protozoans
Esthwaite (U.K., Cumbria): 974
*Daphnia lumholtzi*
Lake Samsonvale (Australia): 897
dominant planktonic crustaceans
Lake Awasa (Ethiopia): 1130
emergence
*Pyrrhosoma nymphula*
ponds in northern England: 658
fishes
tidepools of boreal environment (USA, Maine): 1168
*Gelidium latifolium*
Asturias (northern Spain): 1427
*Gracilaria sordida*
Mokomoko Inlet (New Zealand): 1339
in primary productivity
Lake Tahoe (USA): 826
invertebrates
stream pools
tropical river: 71
larval fish
St. Clair River delta (Canada): 985
macroalgae
Brazilian stream: 859
Mediterranean hydromedusae: 642
phytoplankton
effect of different disturbance frequencies: 1312
Lake Liddell (Australia): 1463
Ohio River and Kentucky tributaries (USA): 1330
role of nutrients: 501
plankton
Lake St. Clair (Canada): 1194
planktonic ciliates
Florida lakes: 122
planktonic rotifers
Lough Neagh (Ireland): 51
Rotifera
Lake Awasa (Ethiopia): 1131
Lake Numasawa (Japan): 1661
zooplanktivorous fish
Gebel Aulia Reservoir (Sudan): 714

**Seawater**
eutrophication
chemical criteria
Oslofjord (Norway): 6

**Seaweeds**
agar composition
*Gelidium rex*: 1082
Gracilariaceae from New Zealand: 575
*Gracilaria dura*: 1210
*Gracilaria sordida*: 1339
agar yield
*Gracilaria domingensis*: 458
ammonium uptake
*Chondrus crispus*: 44
ammonium
effect on growth and carrageenan content
*Kappaphycus alvarezii*: 1466
antitumor activity: 1244
antiviral activity: 1231
*Ascophyllum nodosum*
extract for pest control: 711
bioconversion
European projects: 1162
biotechnology: 1409
carrageenans from *Rhophyceae* spp.
Normandy coast (France): 353
carrageenophytes
infrared analysis: 352
Chlorophyta
parasexual fusion products: 868
productivity and nutrient relationship: 1001
*Chondria macrocarpa*
extraction of xylogalactan sulphate: 576
*Chondrus* cover
relationship with *Phymatolithon*: 1306
*Chondrus*
dry weight and carrageenan composition: 1437

commercialisation: 49, 1113, 1877
competition
*Fucus* spp.: 288
cultivation
effect of light on production: 1114
*Eucheuma* spp.: 80
*Macrocystis*: 1647
nori: 1190
culture
functional-form model
application: 710
*Gracilaria* as model: 563
*Gracilaria tikvahiae*-model
nitrogen nutrition: 709
*Lessonia* juvenile sporophytes: 464
digeston by amoeba
protoplast production: 1352
*Ecklonia cava*
photosynthesis: 69
*Ecklonia stolonifera*
holdfasts
size-age relation: 1252
ecological impact of harvesting
review: 1561
effects of acid wastes
on biomass and species richness: 184
eicosanoids from red marine algae: 608
epiphytal Amphipoda community: 1469
fucose-containing polysaccharides
from brown algae: 1241
Gelidiales
taxonomic problems: 1499
*Gelidium* spp.
field and culture studies: 1465
genetics
*Gelidium vagum*: 1123
*Gigartina* spp.
form variation and productivity
in relation to wave exposure: 811
*Gracilaria*
fatty acid content: 64
recovery
socioeconomic impact: 1459
*Gracilaria sordida*
density and reproductive phenology: 1339
*Gracilaria verrucosa*
cell-wall composition: 128
cell-wall ultrastructrure: 1680
viability and dissemination of spermatia: 419
Gracilariaceae
taxonmy: 167
Growth
*Gracilaria sordida*: 1339
*Lessonia* juvenile sporophytes: 464
large brown algae: 909
*Lithothamnion corallioides*: 1358
harvesting
ecological effects: 108, 552, 1521
heated effluents
effect on *Laminaria* and *Pterygophora*: 1247
*Hedophyllum sessile*
behaviour in variable-speed flow tank: 68
industry
British Columbia (Canada): 1515
Irish moss
net primary productivity: 1366
*Laminaria*
enzyme analysis and taxonomy: 159
large brown algae
size distribution: 909
lectins from marine algae: 777
life cycle
*Laminaria abyssalis*: 1878
life histories
*Boergesenia* and *Valonia*: 158
NMR spectroscopy
agaro- and carrageenophyte differentiation: 639
*Nothogenia fastigiata*
isolation of sulphated galactants: 692
photon capture
form-function analysis: 1386
phycocolloids
from *Gelidium madagascariense*: 1158
from *Eucheuma denticulatum*: 1158
from *Kallymenia reniformis*: 417
phyllophoroid algae
taxonomy: 1034
polymer activity in calcification
*Corallina*: 1610
*Polysiphonia breviarticulata*
bloom: 869
*Porphyra* spp.
conchospore production and seasonality: 1792
*Porphyra yezoensis*
degree of self-fertilization: 1569
resources
Spain: 680
*Sargassum* bed
seasonality of standing crop: 1726
settlement
on coastal structures: 1811
systematics
Gracilariaceae: 557
*Porphyra perforata* complex: 999
tissue culture
*Agardhiella subulata*: 213
*Ulva*
bioflavor production
cultured systems: 568

**Secchi depth**
effect of *Daphnia* biovolume: 778
impact of planktivore abundance: 1120
in relation to organic matter: 1128

**Secondary production**
also see Productivity
*Acanthocyclops robustus*: 200
*Bosmina longirostris: 200*
bacteria: 743
*Hexagenia limbata*: 1822

**Sediment**
$^{110m}$Ag pollution: 594

$^{60}$Co behaviour
Tejo River (Portugal): 1028
accumulation
in Toronto Harbour (Canada): 1196
of mercury
Tokuyama Bay (Japan): 1218
of polycyclic aromatic hydrocarbons: 878
pattern: 1321
acetylene reduction
Lake Naivasha (Kenya): 1215
ammonification rates
Marica Lagoon (Brazil, Rio de Janeiro): 521
analysis
Cladocera: 1670
for monitoring of industrial emissions: 1785
organic pollutants: 582
sequential core analysis: 738
subfossil remains of *Bosmina (Eubosmina)*: 764
arsenic
transport between sediment and water: 347
arsenobetaine degradation to arsenic: 704
bacteria
activity: 536
distribution: 558
biogeochemistry
Lake Toolik (Alaska): 350
bioturbation effects of *Nereis*
on phosphate flux: 317
cadmium and cobalt solubility: 1804
characteristics
lagoons (Mauritius): 504
chemistry
Lakes Suurjärvi and Heinälampi (Finland): 668
nutrient diffusion: 164
sequential analysis: 738
chronology
accuracy and precision: 1273
contaminants
bioassessment
improved elutriation technique: 380
ecological effects
Detroit River (USA, Michigan): 1054
Limited Sample Bioassay: 1192
toxicity to *Macrocystis* gametophytes: 817
tumors in fish
Detroit River (USA, Michigan): 1019
dating
$^{241}$Am measurement: 59
$^{210}$Pb measurement: 252
distribution
diatoms: 258, 1706
dormant stages of *Mesocyclops edax: 427*
short chain carboxylic acids: 434
spheroidal carbonaceous particles
use as marker: 1838
tubificids: 976
dredging
of phosphorus-rich upper layers
lake restoration: 1740
effects of tide range alterations: 1789
elutriates preparation
use of rotary tumbler: 380
entrainment
by turbulent flow: 58
ETS-activity
Lake Balaton (Hungary): 578
evaluation
by battery of tests approach: 459
export
of Kuparuk River drainage (Alaska): 925
fine-grained flocculation effect
on vertical transport: 993
geochemistry
Bosherston Lakes (U.K., SW Wales): 1402
heavy metals
bioavailability: 260, 1013
chemical stratigraphy
in relation to acidic precipitation: 1250
concentration of Cu and Zn in talitrid
amphipods: 1384
concentration of Fe, Zn and Cu
in relation to pH: 1880
copper concentration
measurement techniques: 118
copper and zinc content
paleolimnology
Llangorse Lake (U.K., Wales): 851
distribution and concentration
Langat River (Malaysia): 1505
geochemistry: 1565
inventory: 1506
iron flux: 1662
pollution: 112, 124, 550, 979, 1239
partitioning: 298
release: 793
sorption: 1881
speciation: 683
Holocene history
Truelove Lowland (Canada, Devon Island): 898
importance
in nutrient cycles understanding: 545
inorganic phosphates
fractionation: 502
ionic alkyllead
occurrence and fate: 286
linear alkylbenzenesulphonates
diffusive exchange: 40
mass
effect on sediment respiration: 535
mercury content: 50
metabolism: 1611
metal sorption/desorption process
multichamber device: 261
metal toxicity
to *Daphnia magna* and *Tubifex tubifex*: 1837
metal and oil contamination
lakes along the River Kolbäcksån (Sweden): 385
methanogenesis: 1156
microbiology
review: 1144
microbial variables
mesocosm experiments: 460
mineralization
of phosphorus and nitrogen from seston: 47

mixing rate
effect of macrobenthos activity: 605
nutrient deficiency estimation
by diffusion enrichment technique: 429
nutrient fluxes: 1533
nutrient release: 863, 941
organic carbon, C:N ratios
and mineralisation products: 6
organic components as transport tracers: 322
organic matter content: 326, 1458
organic phosphate estimation
by fractionation: 393
oxygen consumption: 649
oxygen demand: 1549
pH
effect of liming and bioturbation: 1598
phosphorus
adsorption: 1349
concentration: 318
distribution: 1008
inactivation with iron (III) chloride: 182
mobility: 1040
release: 239, 832, 1399, 1747
sequential fractionation: 669
pollen record
paleoecology
Groby Pool (England, Leics): 386
quality: 248, 660
rapid mineral analysis
by QEM-SEM system: 1435
resuspension
coefficient: 585
effect on alkaline phosphatase activity: 1234
effect of waves: 244
effect of wind: 133
role of benthivorous fish: 1125
sampling evaluation: 537
sources
from erosional records: 405
stability
effects of estuarine infauna: 1122
influence on benthic invertebrate populations: 1178
stratigraphy
Lake Honghu (central China): 252
sulphate reduction
Lake Kinneret (Israel): 689
suspension system
bioassay with small aquatic organisms: 1528
toxicity
Algal Fractionation Bioassays: 1199
bioassays
with bacteria, algae and higher plants: 17
with benthos: 1415
with *Hyalella azteca*: 196
with *Lumbriculus variegatus*: 414
with phytoplankton: 1193
with intertidal colonising organisms: 1090
by epifluorescence microscopy: 1557
nematode and algal bioassays: 655
trace elements
accumulation in oligochaetes: 1477
inventories: 860
concentrations: 1017
transformation of biogenic substances
review: 383
transport dynamics: 179, 528, 1275, 1356
traps
distribution of carbonaceous particles: 1838
estimation of particulate nitrogen: 538
sediment accumulation rate: 539
yields
paleoecological changes
Lake Bjäresjösjön (S. Sweden): 580
zinc uptake
effect of tubificid oligochaetes: 1623

**Sediment focussing**
radionuclide content
bottom sediments
Lake Päijänne (Finland): 865

**Sediment particle size**
turbidity relationship: 620

**Sediment texture**
relationship with dispersion: 1594

**Sediment traps**
methodological description: 693
settling material collection: 572

**Sediment-mixing**
model: 867

**Sediment-water exchange**
of nutrients
effect of acid rain: 995
in Ria Formosa lagoon (Portugal): 505

**Sediment-water interface**
transformation of biogenic substances
review: 383
oxygen profiles
Ria Formosa lagoon (Portugal): 233
physical and chemical factors
*Pontoporeia* distribution: 1596
upward nutrient fluxes
impact of organic matter: 117

**Sedimentary pigments**
estimation
sources of error: 756

**Sedimentation**
Baltic Proper: 1801
effects of estuarine infauna: 1122
impacts of bleak and roach
enclosure experiments: 781
in relation to successional changes in habitat: 161
influence of land use
River Kyrönjoki delta (Finland): 739

iron, phosphorus, organic carbon
Öre estuary (northern Sweden): 547
Lake Volkerak (The Netherlands): 1682
measurement and prediction: 497
organic matter and nutrients: 1617
particulate matter
Lake Chuzenji (Japan): 572
physical consequences
South Johnstone River estuary (Australiad): 62
rate
fallout nuclides
Lake Päijänne (Finland): 865
$^{210}$Pb: 252, 1232
seston
Lago di Mergozzo (Italy): 259
phosphorus and nitrogen: 863
source of nitrogen
in marshes: 410

**Sedimentology**
Gulf of Gaeta (Tyrrhenian Sea, Italy): 527
Kawar, Seggedim and Dibella depressions
eastern Niger: 119

**Seed bank**
in sediments
collecting of undisturbed samples
method: 662

**Seed development**
in relation to metal toxicity: 300

**Seedlings**
of mangroves
distribution pattern
Kenya coast: 1756

**Selection**
*Gelidium vagum* hybrids: 1123
*Littorina* populations
on exposed and protected shores: 205
predation by water mite on zooplankton
in enclosures: 250

**Selective erosion and delivery**
relationship with grain size characteristics: 1803

**Selective mortality**
*Ceriops tagal*: 731

**Selectivity**
of food
bream
Lake Balaton: 170

**Selenastrum**
*capricornutum*
microplate toxicity assay
round robin testing: 1698

**Self-fertilization**
*Porphyra yezoensis*: 1569

**Selfing**
*Triops newberryi*: 1509

**Sellafield**
input of radionuclides
Ponsonby Tarn (U.K., Cumbria): 195

**SEM morphology**
acoel flatworms
ocelli: 1873
Anostraca, Notostraca and Spinicaudata
resting eggs: 1701
*Bdellocephala brunnea*
syncytium in embryos: 1481
chydorids
body: 449
*Coregonus lavaretus* larvae
otolith: 906
*Daphnia*
food selection: 728
enchytraeids
muscle: 1739
free-living platyhelminths
photoreceptors: 1620
*Gracilaria verrucosa*
cell wall: 1680
*Halocordyle disticha*
nematocysts: 1283
microturbellarians
extracellular matrix: 998
*Monospilus dispar*
headshield: 1077
*Notholca foliacea*
lorica: 769
planarians
intestinal phagocytic cells: 807
Platyhelminthes and Xenoturbellida
statocysts: 472
rotifer mastaxes: 1064
rotifer trophi preparation
method: 1494
*Staurastrum dilatatum* var. *thomassonii* var. nov.: 1423
*Streptocephalus* spp.
cyst wall structure: 404
filtration apparatus: 1135
*Temnocephala* spp.
epidermal surface: 378
*Thalestris longimana*
copepodite stages: 374
triclads
spermatozoa: 806

**Septal insertion**
rugose corals
early ontogeny: 510

**Septate junctions**
structure and function
Anthozoa: 768

**Sequential**
harvesting
*Artemia franciscana*: 9
leaching
heavy metals in sediments: 1785

**Sergentia**
*coracina*
in Starnberger See (Germany): 607

**Serial discontinuity**
reservoir impact: 1299

**Sericostoma**
*personatum*
diel activity
effect on organic matter distribution: 1793

**Serotonin**
effect on planarian regeneration: 1879

**Sertularia**
*perpusilla*
growth and degeneration: 791

**Seston**
composition and dynamics
Lake Chenhu (China, Hanyang): 1824
Ariège and Garonne rivers (France): 296
diet
for filter-feeding Trichoptera: 1784
filtration
by *Dreisenna polymorpha*
Lake Parteczyny (Poland): 1859
in natural waters
alkalinity determination: 335
mercury content: 50
particle spectrum
zooplankton feeding behaviour: 599
settling flux and sinking velocity: 259

**Settling sediment traps**
deposition of suspended solids: 132
resuspension of inorganic sediments: 133

**Settling**
juvenile *Dreisenna*
Lake Erie (USA): 687

**Sewage treatment plant**
effluents
effect on *Corbicula fluminea*: 126

**Sex ratio**
*Galaxias occidentalis*: 1315
*Thermocyclops crassus*: 1038
*Unionicola intermedia*: 92
variation
*Triops newberryi*: 1509

**Sex**
*Neomysis integer*
effect on excretion and respiration rates: 1820
size relationships
*Gammarus* mating: 11
-specific mortality
in *Acanthocyclops robustus*
fish predation: 1035

**Sexual**
dimorphism
Amphipoda: 333
*Gammarus* spp.
size relationships: 11
*Paracilicaea keijii* n.sp.: 828
reproduction
Xeniidae: 130
*Gracilaria verrucosa*: 419

**Sexuality**
monogonont rotifers: 1604

**Shallow lakes**
coupling of phytoplankton and detritus
Lake Loosdrecht (The Netherlands): 630
Lake Loosdrecht (The Netherlands)
underwater light field characterization: 631
Lake Arreso
phosphorus release from resuspended sediment: 1619
Lake Tämnaren (Sweden)
effect of resuspension on algal production: 740
phytoplankton growth efficiency
effect of light attenuation and insolation: 632

**Shape and flow**
of *Hedophyllum sessile*
in relation to drag reduction: 68

**Sheephead minnow**
chronic toxicity to industrial effluents: 796

**Shell**
dissolution
Littorinidae: 1690
morphology
*Alathyria jacksoni*
variation: 95
*Crassostrea cucullata*
Fourier analysis: 1673
*Dreissena polymorpha*: 1023
*Littorina saxatilis* and *L. arcana*
variation: 461, 646
*Littorina neglecta*
as morph of *Littorina saxatilis*: 839
*Nucella lapillus*
effect of crab effluent, and scent of damaged conspecifics: 1297
structure
Littorinidae
ecological and evolutionary significance: 1690

**Shell-globules**
in vitelline cells

turbellarians
ultrastructure: 656

**Shorelines**
metal contamination in sediment and biota
Bay of Quinte (Lake Ontario, Canada): 364

**Short chain carboxylic acids**
distribution
in eutrophic drainage channels: 434

**Short-term changes**
phytoplankton
Lake Balaton (Hungary): 1288

**Shredders**
densities
conduit vs diffuse springs
karst region (USA, Minnesota): 113
role in leaf litter processing: 659
role in organic particle size reduction and mobilisation: 1298

**Shrimp and fin fisheries**
Kuwait
coastal environmental impact: 855

**Shrimp**
culture
in mangroves: 1389

**Sibling species**
*Littorina saxatilis* and *L. arcana*: 840

**Sidoidea**
comparative morphology and ecology: 913

**Sierra Leone (West Africa)**
rivers and lakes
biological features: 805

**Siganus**
*sutor*
effect of oocytic atresia
on fecundity estimates: 1253

**Sikko Parma**
biographical sketch
achievements and publications: 1753

**Silica**
enrichment
effect on phytoplankton seasonal succession: 903
limitation
effect on intracellular free amino acid level
*Thalassiosira weissflogii*: 1075

**Silt**
accumulation
epilithic periphyton: 645
-clay ratio
effect on sediment dispersion: 1594

**Siltation**
athalassic lakes (Australia,NS Wales): 1710

**Silurus**
*glanis*
food consumption assessment
by bioenergetics model: 1376

**Simulation model**
carbon budget
Oosterschelde estuary (S.W. Netherlands): 1530
*Iridaea splendens* population (Canada, Vancouver): 52
phosphorus cycle
Lake Loosdrecht (The Netherlands): 822
phylogenetic trait
*Littorina*
under different selective pressures: 205
planktivorous feeding of arctic grayling: 1256
sedimentation of suspended solids
Yoshii River estuary (Japan): 1219

**Simuliidae**
*Simulium sp.*
flow patterns
around cocoons and pupae: 499
*ornatipes*
water velocity preferenes: 779
larvae
water ingestion: 1073
*Prosimulium*
response to phosphorus enrichment: 755
sampling
surface area estimation: 1107
substrate colonisation
*Austrosimulium bancrofti* larvae: 96

**Single species testing**
hazard assessment: 253

**Sinking velocity**
seston and chlorophyll*a*
Lake Chuzenji (Japan): 572

**Sintering leaching tests**
for ceramic products from polluted dredged muds: 1531

**Siphonophora**
composition, abundance and distribution
Yucatan Peninsula and Mexican Caribbean Sea: 597
*Rhodalia miranda*
biogeography
south-west Atlantic: 1431
*Rosacea*
nematocyst development: 1583
vertical distribution
off northern Namibia: 1290
predation on ctenophores, cnidarians: 1370

**Site**
-saturation model
binding capacities for copper (II): 613
specificity
*Diceratocephala boschmai*: 852
variability
insular Caribbean mangroves: 87

**Size**
composition
*Rastrelliger kanagurta*
Zanzibar coast (East Africa): 1216
distribution
brown trout
effects of angling: 214
*Daphnia* population
effect of fish predation: 284
large brown algae
Ohori (Korea): 909
phytoplankton
spatial changes
Lake Biwa (Japan): 1727
phyto- and zooplankton communities
Lake St. Clair (Canada/USA): 1634
plankton community
relationship with respiration: 21
fractionation
microplankton
relative contributions
to alkaline phosphotase activity: 143
phytoplankton
in relation to chlorophyll content: 30
of body and bud in *Hydra*
physiological and evolutionary implicationss: 1590
of snails
in relation to salmonid diet: 1133
-selective predation
on macroinvertebrate drift: 907
structure
crustacean plankton
effect on Secchi depth: 778

**Size-efficiency hypothesis**
in relation to biomanipulation
overview: 957

**Size-fractions**
phytoplankton
biomass and photosynthesis: 947

**Skeletogenesis**
*Antipathes fiordensis*: 626

**Skeleton**
Cnidaria
ultrastrusture: 1712

**Slimy sculpin**
abundance and growth
effect of lake trout predation: 1110
comparison of populations in arctic lakes
with and without piscivores: 716
effect of predation on invertebrate community
Toolik Lake (USA, Alaska): 369
predation
effect on larval chironomid community
arctic ecosystem: 643

**Smith's formula**
for photosynthesis: 628

**Smittia**
*durandae* n.sp.
Lebanon: 1180

**Smooth muscles**
bdelloid rotifers
ultrastructure: 321

**Snails**
*Bulinus forskalii*
host of *Schistosoma intercalatum*: 235
grazing
effect on periphyton community structure: 1065
in relation to diatom distribution
and interspecific variation: 423
size distribution and density
in relation to salmonid diet: 1133

**Snow**
diminution of radiation: 189

**Sociellus n.gen.**
*torus* n.sp.: 794

**Socio-economic impact**
*Gracilaria* production
Saldanha Bay (South Africa): 1459

**Soft-bottom**
sediment
sampling by Ekman grabs
design improvements: 180
communities
organization
in relation to organic matter
Tyrrhenian Sea (Italy): 326

**Software**
computerized counting
plankton, epiphyton, sediment diatoms: 699

**Soil**
erosion
paleoecological changes
Lake Bjäresjösjön (S. Sweden): 580
sediment delivery
effect of sugar cane cultivation: 62
extracts
effects of acidity: 1681
fauna
litter decomposition: 1825
residual activity

sulfonylurea herbicides: 1382

**Solid state**
$^{13}C$ NMR spectroscopy
agaro- and carrageenophytes: 639

**Solidity**
culture medium
tissue culture of red seaweeds: 1438

**Solitary hydroids**
*Fukaurahydra anthoformis* and *Hataia parva*
Japan: 1872

**Solubility**
nickel
effect of seawater salinity: 1476
oxygen
Dead Sea brine: 1242

**Solution chemistry**
nickel: 1476

**Sorption**
nickel solubility
effect of Cu, Cd, Pb, Fe, Mn, and Al: 1476
of heavy metals by river sediments: 1881

**Sorting**
of stream benthic samples
time cost
regression models: 309

**Sound**
of large lake
transport processes
modelling: 1781

**Spartina marsh**
nitrogen cycling: 410

**Spate**
effect on interstitial assemblage
Rhône River (France): 1066
effect on population density
interstitial crustaceans: 1080
effect on vertical distribution
interstitial community
Rhône River channel (France): 435
effect on seasonal changes
benthic macroinvertebrate community: 436
effect on water quality profiles: 1644

**Spatial and temporal variation**
grain size composition
fluvial suspended sediment: 1803

**Spatial distribution**
*Alosa fallax fallax* juveniles
Rivers Severn and Wyne (U.K., West Wales): 60
*Batrachospermum boryanum*
Chipuxet River (USA, Rhode Island): 697
benthic invertebrates
stream flow and predation effects: 960
Cladocera
effect of selective fish predation: 1353
Copepoda
Gulf of St. Lawrence (Canada): 313
dormant copepodids, *Cyclops vicinus*, *Mesocyclops leuckarti* and *Thermocyclops crassus*
South German lakes: 1039
fish and macroinvertebrate communities: 1573
fishes
Tuesday Lake (USA): 736
periphyton
effect of fetch
Lake Memphremagog (Canada, Québec): 282
protozooplankton
Esthwaite (U.K., Cumbria): 975
pulmonate gastropods
ditch (France, Orsay): 268
zooplanktivorous fish
Gebel Aulia Reservoir (Sudan): 714
zooplankton
Ogochi Reservoir (Japan): 1734

**Spatial overlap**
*Acanthocyclops robustus* and its prey: 1446

**Spatial variability**
ammonium release: 1773
invertebrates
chalk stream (U.K., Berkshire): 1867

**Spatiotemporal scales**
interstitial populations: 1080

**Spawning**
*Coregonus albula*: 949
hermatypic corals
Bermuda: 1868
*Protopalythoa* sp.
Orpheus Island (Great Barrier Reef): 1474
*Thymallus arcticus*
Beaverlodge River (Alberta): 270
zebra mussel
Lake Erie (USA): 687
migration and time
*Galaxias occidentalis*
Collie river (SW Australia): 1315

**Speciation**
*Cyanea*
Long Island Sound (USA): 224
*Dina*
Lake Ohrid (Yugoslavia): 1585
fauna
Lake Baikal vs Lakes Tanganyika and Malawi: 565
*Gyratrix hermaphroditus*-complex
Western Europe: 1368
heavy metals

cadmium and copper: 718
effect on biovailability to tubificids: 683
in suspended particulate matter: 1577
in urban river sediments: 1818
lead-210: 476
potential adverse effects: 1565
phosphorus: 1627
trace elements: 1477

**Species associations**
insects
subarctic lakes and streams (Canada, Québec): 720

**Species composition**
Anostraca, Cladocera and Copepoda
saline lakes (Spain): 36
Calanoida
West-Darfur (Sudan): 454
ciliates
Lake Kinneret (Israel): 1027
diatoms
limestone stream (Spain): 1475
Portneuf River (USA, Idaho): 1780
ecological modelling: 854
Enchytraeidae
West Florida (USA): 737
in relation to salinity
salt lakes of District Victoria (Australia): 1853
mangroves
N.W. Sri Lankan coast: 42
Mida Creek mangroves (Kenyan coast): 586
Muthupet mangrove (India, Tamilnadu): 82
microcrustacean and rotifer communities
Malaysian ricefields: 32
microphytoplankton
Pitchavaram mangals (S.E. Indian coast): 864
phytoplankton
effect of intermediate disturbances: 303, 416
plankton
Lake St. Clair (Canada: 1194
Rotifera
arctic North America: 299
floodplain lakes of River Niger (Nigeria, Imo): 1548
Tasmania: 1566
western Sudan: 399
sedimentary diatoms
Lake Tanganyika: 258
zooplankton
Lake Naivasha (Kenya): 1095

**Species diversity**
algal epilithon
effect of oil refinery effluent: 1578
Cladocera
Reggio Emilia ricefield (Italy): 524
diatom community
index of water quality: 1223
epilithic diatoms
Kuparuk River (Alaska): 1142
fish community
Rio Claro (Costa Rica): 1016
phytoplankton
effect of physical disturbances: 813, 1185
effect of stress and disturbance: 1270
planktonic Rotifera
Po River (Italy): 525

**Species inventory**
Aral Sea: 27

**Species richness**
fish community
Rio Claro (Costa Rica): 1016
in relation to salinity
salt lakes of District Victoria (Australia): 1853
lotic midges
effect of discharge rates: 1379
Rotifera
high mountain lakes and ponds (Spain Sierra Nevada): 1161
tropical freshwaters
Australia: 1567
zooplankton
Lake Mead (USA): 1609

**Species**
definition
classical rotifer taxonomy
recent approaches: 920

**Specific clearance rates**
zooplankton
biomanipulated vs unmanipulated Dutch lakes: 675

**Spectral analysis**
horizontal, transverse
and vertical velocity profiles
saline pool: 1560
lake water
Loosdrecht lakes (The Netherlands): 409

**Spectral composition**
*Tisbe holothuriae*
population dynamics: 1140

**Spectral light distribution**
measurement
laboratory scale enclosures: 631
pigmentation of cyanobacteria: 1434

**Spectrometry**
upwelling irradiance
Loosdrecht lakes (The Netherlands): 409

**Spelaeomysis**
*cochinensis* n.sp.
India: 1301

**Spermatia**
*Gelidium vagum*: 1124
*Gracilaria verrucosa*: 419

**Spermatozeugmata**
tubificids
structure
comparison: 522

**Spermatozoa**
tubificids
ultrastructure: 522
freshwater triclads
ultrastructure and movement: 806

**Sphagnum**
high oxygen demand: 1549

**Spheroplast**
*Ulvaria oxysperma*
attachment and regeneration: 870

**Spinicaudata**
coexistence with Anostraca and Notostraca
temporary ponds: 1699
epizootic algae and Protozoa: 1700
resting eggs
morphology: 1701
species distribution
Mexico: 1031

**Spongillidae**
*Dosilia brouni*
Lake Baringo (Kenya, Gregory Rift): 1737
freshwater sponges from Panamá: 1351
*Spongilla lacustris*
cold tolerance of gemmules: 514
life cycle: 1050

**Sporophytes**
*Lessonia trabeculata*
culture and growth: 464

**Spray system**
for re-attachment of *Gelidium sesquipedale*: 1483

**Springs**
karst region
decomposition rates
and chemical/physical conditions: 113
nematode distribution
effect of ionic composition: 1263

**Spumella**
feeding behaviour: 767

**Stability**
sediments
effects of estuarine infauna: 1122
stream macroinvertebrate communities: 1426
prairie streams
predictability of streamflow
and particulate organic matter: 754
seaweed harvesting
ecological effects: 552

**Stabilizing selection**
*Littorina pallescens*
shell properties: 336

**Stable isotopes**
microbial control of DOC
measurement: 762

**Stable nitrogen isotope ratio**
use in food source evaluation
*Neomysis intermedia*: 1714

**Stable states**
freshwater ecosystems
modelling: 1518
application of biomanipulation
overview: 957

**Standardization**
bioassay method
with *Colpidium campylum*: 425

**Standards**
bioassay techniques: 532

**Standing crop**
*Egeria radiata*
Cross River system (Nigeria): 1174
moss-dwelling chironomids
Breitenbach stream (central Germany): 1246
*Sargassum* bed
Bolinao (Philippines): 1726

**Staphylinidae**
burrowing *Bledius*
agents of bioturbation: 588

**Starvation**
ability
*Daphnia pulicaria*
effect of previous feeding conditions: 1659
effect on excretion and respiration rates
*Neomysis integer*: 1820
*Polycelis*
effect on number of eyes: 23

**Statocyst**
*Convoluta psammophila* embryos
morphogenesis: 526

**Staurastrum**
*thomassonii* n.sp.
Grane Langso (Denmark): 1254

**Steam explosion**
effects on cell-wall ultrastructure
*Gracilaria*: 1680

**Stem cells**
*Microstomum lineare*
fate: 1296

**Stenonema**
*femoratum*
molting, mortality and major ion concentration
effect of pH depressions: 1462
*vicarium*
leaf litter colonisation: 168

**Stenoteles**
*Halocordyle disticha*
morphology, distribution and function: 1283

**Sterility**
*Gelidium vagum*: 1123
isolation and characterization of mutants: 1124

**Stings**
by jellyfish
reactions in man
therapy: 247

**Stizostedion**
*lucioperca*
food consumption assessment
bioenergetics model: 1376

**Stock**
assessment
*Mirogrex terraesanctae*
Lake Kinneret (Israel): 961
distribution
*Gelidium*: 1501

**Stolonization**
rate
*Nais* spp.: 857

**Stomach analysis**
Nile perch (Mwanza Gulf, Lake Victoria): 1155

**Stoneflies**
*Isoperla grammatica* and *I. difformis*
diet: 1045

**Storm modelling**
hydrologic processes
wetlands: 601

**Storm surge barrier**
effect on flora and fauna
Oosterschelde estuary (The Netherlands): 980

**Storms**
impact on algal assemblages: 1733
in mountain catchment
hydrochemical response
influence of antecedent conditions: 228
nutrient concentration and stream discharge
relationship: 1108

**Stormwater**
effects on receiving waters
sediment analysis: 1818

**Strain selection**
seaweed culture: 710

**Stratification**
coastal lagoon
phosphate-calcite relationships: 1008
lake basins
effect on distribution of phototrophic bacteria: 591
microorganisms
Lake Cisó (Spain): 598

**Stratified flow**
characteristics
saline pool: 1560

**Stratigraphy**
Kirisjes Pond and Pup Lagoon (Antarctica
Larsemann Hills): 618
of diatoms and chrysophytes
lakes in Sudbury (Canada): 426
of fossil Chironomidae
Lake Grasmere (New Zealand, South Island): 1516
of fossil pigments
Lake 817 (Canada, Newfoundland): 1472

**Stratiotes**
*aloides* clones
life history
comparison: 1408

**Stream**
benthos
recolonisation: 1172
sample processing and sorting time
regression models: 309
chemistry
effect of fire: 227
modelling
applications: 786
communities
functional organization
effect of riparian vegetation: 446
epilithic algae
effefct of oil refinery effluents: 1578
continuum
water quality criteria
for stream orders: 367
ecology
*Anguilla* population
Arroyo Chabatchos (Iberian Peninsula): 1002
colonisation by insects
effect of insecticidal application: 1798
faunal diversity
south-western Australia: 246
impact of highway construction: 1657
nutrient relationship with ground water: 752
seasonal dynamics of chironomids: 1246
species richness of midges: 1379
fish
brook trout colonisation response: 1586

flow
effect on spatial dynamics of benthic invertebrates: 960
predictability in prairie streams (USA, Texas): 754
velocity measurement by head tube: 310
invertebrate community
between-year variations
effect of abiotic and biotic factors: 1457
leaf litter processing rates: 801, 1134
macroalgae
composition and seasonal variation: 859
relation to physical and chemical variables: 859
seasonal distribution and abundance
Little River (USA, North Carolina): 498
macroinvertebrate benthos
short-term depletion by drift
experiment: 1856
structural and trophic alterations
effect of trout farm effluents: 264
metabolism
cellulase activity: 1806
exoenzyme activity in epilithic biofilms: 1580
fate of amino acids in sediments: 531
primary production and autochthonous carbon
southern Ontario (Canada): 1456
order
use in water quality assessment: 367
pools
invertebrates
spatial distribution and seasonal variation: 71
Rhodophyta
distribution and seasonal dynamics
Preto River basin (Brazil): 1227
territoriality
in newly-emerged *Salmo salar*: 685

**Stream-bed sediments**
organic matter distribution
role of *Sericostoma personatum* larvae: 1793

**Streptocephalus**
*dichotomus*
cyst wall structure
comparison with *S. torvicorni*: 404
fatty acids in cysts
comparison with *S. proboscideus*: 1207
*macrourus*
egg hatching: 1149
*packardi* and *S. texanus*
distribution
Central Texas (USA): 127
spp.
cyst hatching: 451
filtration apparatus
SEM morphology: 1135
*torvicornis*
distribution and morphological variation, northern Africa: 452

**Stress**
effect on phytoplankton
species richness, diversity and equitability: 1312
effects on ecosystem
application of bioassays: 254
indication
by microbial loop components: 1200
on benthic invertebrates
from suspended solids: 1373
power peaking flow
effect on invertebrate community and feeding guilds: 1724
role in structuring phytoplankton community: 1270

**Striated muscles**
*Podocoryne carnea*
transdifferentiation
effect of tumor promoters and diacyglycerol: 942
Rotifera
innervation: 321

**Strobila**
*Atorella japonica*
muscles and nerves
ultrastructure: 1087

**Strontium**
content
ostracod shells
early Pleistocene hydrochemistry: 45
cycle
couping with calcium
Lake Constance (Germany): 1635

**Structural and trophic alterations**
macrobenthic communities
influence of fish farm effluents: 264

**Structural indicators**
ecosystem health: 1195

**Stygobiont**
*Alona sketi* n.sp.
Yugoslavia: 216
crustacean population structure: 1080

**Stylactaria**
*conchicola* comb. nov.
redescription
Hokkaido (Japan): 1221

**Stylophora**
*pistillata*
host of *Trapezia cymodoce*: 1436

**Sub-optimal habitats**
young-of-year lake trout
growth differential: 1109

**Subalpine lakes**
Lake Yunoko (Japan)
*Daphnia* population

significance of low oxygen layer: 708

**Subalpine stream**
food selection
by *Salvelinus fontinalis*: 788
macroinvertebrates of submerged undercut banks: 1417

**Subantarctic area**
bacterial response to organic inputs: 411

**Subarctic region**
insect associations
lakes and streams (Canada, Québeca): 720
seasonal temperature patterns
Alaska (USA): 803

**Subfossil**
*Dosilia brouni* gemmules
Lake Baringo (Kenya, Gregory Rift): 1737

**Sublethal effects**
cadmium
on *Agapetus fuscipes* larvae: 1101
copper
on *Arius felis* diel activity: 1642
endosulfan
on *Brachionus calyciflorus* demography: 519

**Sublittoral**
benthic Amphipoda
Antarctica: 829

**Submerged macrophytes**
also see Aquatic macrophytes
community ecology study
method: 662
response to fish manipulation
Danish lakes: 834
usefullnes in biomanipulation
Lake Zwemlust (The Netherlands): 1287

**Submerged undercut banks**
as habitat for macroinvertebrates
comparison with riffles and pools: 1417

**Submersibles**
Johnson-Sea-Link submersibles
*in situ* observations
hydro- and scyphozoan medusae: 968

**Subsidy-stress**
acid lakes (USA, Florida): 818, 819

**Substrate**
artificial
coastal structures (tetrapods)
for seaweed settlement: 1811
biomass and distribution of fauna: 980
hyporheic faunal distribution: 1111
seaweed settlement: 1811
choice
freshwater Rhizopoda: 155
colonisation
blackfly larvae: 96
*Chondrus crispus*
association with *Phymatolithon* sp.: 1306
heterogeneity
effect on Ephemeroptera diversity: 684
influence on insect density and biomass
South Fork Salmon River (USA, Idaho): 242
influence on macroinvertebrate community
Carter Lake (USA): 1862
influence on nutrient retention: 75
preference
Corixidae: 1729
brachionid rotifers: 1313
selection
stream pool invertebrates: 71
stability
Trichoptera diversity,
abundance and distribution: 325
stone surface area calcualtion methods
simuliid larval density estimation:1107
type
*Ephydra hians*
distribution and abundance
Mono Lake (USA, California): 745

**Subterranean**
turion
*Hydrilla verticillata*
growth and propagule production: 1631
amphipods
biogeography
vicariance models: 772

**Subtidal**
algal assemblages on reefs
influence of biological and physical factors: 1733
macroalgal assemblage structure
role of disturbance: 290
macrobenthos
North Inlet (USA, South Carolina): 1556
vegetation
patterns of organization
central Chile: 1500

**Subtropical**
'Laguna Aeroclub' (Argentina)
predation by pelagic water mites: 1093
Blue Lagoon and Lake Freshwater (Australia)
limnology: 1285
eutrophic lakes (USA, Florida)
applicability of biomanipulation: 358
Florida lakes (USA)
seasonality of planktonic ciliates: 122
algal biomass and primary productivity: 123
Lakes Khanpur, Trigam and Tilwan (India, Kashmir)
calcite supersaturation: 921

**Succession**
benthic macroinvertebrates
Arcadia Lake (USA, Oklahoma): 116
Cladocera
Sainte-Croix reservoir (S.E. France): 1353
*Daphnia* spp.
biomanipulated Dutch lakes: 675
diatom assemblage
limestone stream: 1475
*Eubosmina*
Lake Mondsee (Upper Austria): 1224
Ostracoda
paleoecology
Neusiedlersee (Austria): 1005
phytoplankton
effect on photosynthesis: 1341
humic lake
mesocosm experiment: 1487
Lake Vasikkalampi (Finland): 483
role of scales of disturbance: 1413
plankton
Loosdrecht lakes (The Netherlands): 1757
protists
mesocosms: 1106
rate
phytoplankton
role of disturbance factors: 1454
Rotifera
artificial crater lake: 183
Lake Awasa (Ethiopia): 1131
wetlands
St. Marys River (USA, Michigan): 1844

**Sugar-binding capacity**
of lectins from marine algae: 777

**Sugarcane**
cultivation
effect on soil erosion and sediment yields: 62

**Sugars**
in dissolved organic pool
ploy humic lake: 1205

**Suhria**
carrageenan
Namibian coast: 1159

**Sulfonylurea herbicides**
phytotoxicity
pot bioassay with turnip seedlings: 1382

**Sulphate**
in freshwater
colorimetric determination: 629
reduction
Lake Kinneret (Israel) sediments: 689
saline lakes (Tanzania): 894

**Sulphated galactants**
from *Nothogenia fastigiata*: 692

**Sulphide**
effect on cadmium and cobalt solubility: 1804

**Sulphur spring**
aquatic hyphomycetes: 287

**Superfamily level**
variation of life-history traits
aquatic gammarideans
review: 1479

**Supplementary food**
for *Brachionus plicatili*: 759

**Suprabenthos**
gammaridean Amphipoda: 301

**Supralittoral**
Talitridae
distribution patterns in Tasmania: 1425

**Surface area**
limestone pieces
determination: 329
stone substrate
methods of determination
for simuliid larval density estimation: 1107

**Surface area:volume ratio**
seaweed culture: 710

**Surface microlayer**
bacterioneuston
freshwater pond: 1041

**Surficial**
film
source of resuspended material: 133
sediments
long-term changes in nutrient stocks
Lake Geneva (France/Switzerland): 1627

**Survival**
*Artemia*
cestode parasitism: 43
British salmonid eggs
effect of mechanical shock: 360
cladocerans
effect of long-term copper exposure: 910
*Corbicula fluminea*
effect of DO levels,
sediment and sewage effluents: 126
parr
in lakes (Canada, Newfoundland): 1323
strategies
*Tanymastix stagnalis*
temporary ponds: 647

**Survivorship**
*Favia favus* and *Platygyra lamellina*
Red Sea: 1572
seaweeds: 108

**Suspended matter**
resuspension by wind: 133
effects of phytoplankton: 13
effects of microcrustaceans: 151
influence on benthic communities: 527

**Suspended particulate matter**
annual load and trace elements
Yarra River (Australia): 1577
characterization
use of sediment field-flow fraction: 125
relationship with salinity
Rhône outlet: 1003
transport
Ligurian coast (Italy): 528

**Suspended sediment**
concentration
turbidimetric estimation: 620
effect on bioaccumulation of chlorobenzenes
by *Poecilia reticulata*: 1532
effect on primary productivity
Upper Great Lakes: 1197
load
in relation to sediment transport: 1356
particle size characteristics
overview: 1803
phosphate activity
effect of pH and redox potential: 1040
transport of mercury
Katun river (West Siberia): 1663

**Suspended solids**
attenuation of light
modelling: 1746
contaminated small samples
toxicological assessment: 1192
effect on alkaline phosphatase activity: 1234
effect on benthic invertebrates: 1373
effect on lake benthos
Lake Temiskaming (Canada): 1484
effect on light availability and epilithon: 389
effects on aquatic organisms: 1528
particle size distributions
simulation model
Yoshii River estuary (Japan): 1219
role in toxicity assessment of river water: 1275
silt model
Lake Marken (The Netherlands): 1783

**Suspension feeding**
anuran larvae: 1774

**Sustainable potential yield**
*Egeria radiata*
Cross River system (Nigeria): 1174

**Swamp deposits**
sediment analysis
Lake Honghu (central China): 252

**Swamps**
aerobic litter decomposition
effect of humic substances: 1371

**Sweeper tentacles**
in corals
morphology and function: 1848

**Swimming**
behaviour
Amphipoda: 202
movements
ctenophores: 1084

**Symbiont**
*Chaetogaster limnaei limnaei*
histophysiology of digestion: 602

**Symbiosis**
*Antipathes* and *Astrobrachion*: 650
*Convolutriloba*-algae: 742
dalyellioid platyhelminths and holothuroids: 846
green hydra-*Chlorella*: 1100
hydrozoans-bivalves: 934
*Millepora* and *Savignium*: 337
temnocephalans-freshwater crayfish: 266

**Sympatry**
Anostraca, Notostraca and Spinicaudata
temporary ponds: 1699

**Symposia**
concluding remarks
dissolved organic matter
in lacustrine ecosystems: 1828
dynamics and use of lacustrine ecosystems: 800, 1829
seaweed: 1515
intrazooplankton predation: 1625
North Sea--Estuaries interactions: 1116
trophic relationships in inland waters: 627

**Synapomorphies**
phylum Rotifera: 1800

**Synapse**
structure
proseriates vs lower flatworms: 1411

**Synchaeta**
competitive interactions
with *Scapholeberis*: 616
*oblonga*
egg development time
effect of temperature: 1890

**Syncytium**
*Bdellocephala brunnea* embryos
SEM study: 1481

**Synechococcus group**
bloom-forming cyanobacterial picoplankton

Lake Biwa (Japan): 1030

**Synodontis**
*schall*
reproduction: 695

**Synonymy**
*Lepadella christineae* = *Lepadella quinquecostata*: 1547
*Lecane pomiformis* = *Lecane pyriformis*: 1547
*Littorina saxatilis* = *Littorina neglecta*: 840
*Neodiaptomus schmackeri* = *N. strigilipes* and *N. handeli*: 160
*Neodiaptomus physalipus* = *N. diaphorus* and *N. tiwarii*: 1397
*Neodiaptomus lindbergi* = *N. sewelli*: 1397

**Syringic acid**
effect on *Chlorella* gowth: 967

**Systematics**
see also New taxa and different groups
Amphipoda
*Ingolfiella canariensis* n.sp.: 1787
*Pseudoniphargus candelariae* n.sp.: 1490
*Rhipidogammarus rheophilus* n.sp.: 1655
Anostraca
*Branchinecta belki* n.sp.: 1032
*Branchipus cortesi* n.sp.: 38
*Branchipus serbicus* n.sp.: 1334
Ciliophora
*Paracolpidium* n.gen.: 587
Cladocera
Chydoridae
Ireland: 449
*Ilyocryptus* from Europe
review: 1652
*Ilyocryptus elegans* n.sp.
Argentina: 1292
Cnidaria
*Entacmaea medusivora* n.sp.: 509
morphogenetic processes
evolutionary implications for Hydrozoa: 129
*Samuraia tabularasa* n.gen.n.sp.: 1051
*Stephanoscyphistoma* n.gen.: 825
*Stylactaria conchicola* comb. nov.
redescription: 1221
Conchostraca
Yugoslavia: 1062
Copepoda
*Phyllodiaptomus sasikumari* n.sp.
India: 139
*Odontomolgus pumilus* n.sp: 794
*Sociellus torus* n.gen. n.sp.: 794
*Scutellidium hippolytes*
nauplii: 375
Tisbidimorpha
copepodid development: 373
Diatoms
*Amphora tanganyikae* n.sp.: 258
Gracilariaceae: 557
Nematoda
*Actinonema grafi* n.sp.: 833
*Adoncholaimus papillatus*
redescription: 577
*Bathyepsilonema anulosum* n.sp.: 1771
*Desmodora pilosa*: 833
redescription: 833
*Desmoscolex abyssorum*
redescription: 1607
*Desmoscolex* n.spp.: 1607
*Desmoscolex macrophasmata*
redescription: 1607
*Diplopeltis* n.spp.: 1779
*Leptepsilonema richardi*: 1771
*Leptolaimus meyer-reili* n.sp.: 833
*Pararaeolaimus rumohri* n.sp.: 833
*Southerniella nojii* n.sp.: 833
*Tarvaia heegeri* n.sp.: 833
*Theristus altenbachi* n.sp.: 833
*Tricoma* n.spp.: 1608
*Viscosia erasmi* n.sp.: 577
*Nemertea*
*Amniclineus zhujiangensis* n.gen. n.sp.: 612
Oligochaeta
*Phallodrilus* n.spp.: 1449
Rotifera
*Brachionus moronensis* n.sp.: 936
*Brachionus postcurvatus* n.sp.: 936
*Brachionus urceolaris reductispinis* n.ssp.: 936
*Dipleuchlanis ornata* n.sp.: 1546
*Euchlanis semicarinata* n.sp.: 1546
from Turkey: 1547
*Itura deridderae* n.sp.: 1546
*Lecane* n.spp.: 1546
*Lepadella* n.spp.: 1546
monogonont rotifers
applicability of biological species concept: 1604
*Squatinella lunata* n.sp.: 1546
*Trichocerca kostei* n.sp.: 1546
value of mastax morphology: 1064
Turbellaria
sagittocysts and copulatory organs
phylogenetic significance: 1049
Lecithoepitheliata
review: 1711
Teleostei
*Callionymus* n.spp.: 562
*Callionymus pleurosticus*: 562
*Callionymus simplicicornis*: 562
Temnocephaloidea
*Decadidymus gulosus* n.gen. n.sp.: 266

**[$^3$H]T-autoradiography**
study of stem cells
*Microstomum lineare*: 1296

**T-system**
in muscles
Enchytraeida and Lumbriculidae: 471

**Tabulata**
*Bainbridgia-Dualipora* association
implications
for palaegeography and palaeoecology: 1719

**Tachypleus**
*gigas*
food and feeding behaviour: 295

**Tadple shrimp**
*Lepidurus packardi*
diapause egg reserves: 16
*Lepidurus couesii*
egg hatching
effect of temperature: 712

**Talitridae**
local distributions
west coast of Tasmania: 1425

**Tank culture**
*Cystoclonium purpureum*: 353
*Gelidium*: 511

**Tanymastix**
*stagnalis*
life history: 1208
survival in temporary ponds: 647

**Tanytarsus**
distribution and phenology
Starnberger See (Germany): 607
*thaicus* sp.n.: 1179

**Taphonomy**
diatom assemblages
frustule preservation: 109

**TARI method**
staining of extracellular proteins: 998

**Tarvaia**
*heegeri* n.sp.: 833

**Taxodium**
*distichum*
leaf decomposition rate: 981

**Taxonomic index**
total fatty acid composition
marine microalgae: 1183

**Taxonomy**
*Acanthocyclops montana* n.sp.: 1404
*Actinonema grafi* n.sp.: 833
*Adoncholaimus papillatus: 577*
*Alona hercegovinae* n.sp.: 215
*Alona sketi* n.sp.
Yugoslavia: 216
*Amniclineus zhujiangensis* n.gen.n.sp.: 612
*Amphora tanganyikae* n.sp.: 258
*Antarcticobradya tenuis*
Weddell Sea (Antarctica): 1529
*Antichthomysis notidana* n.g.n.sp.: 516
*Anuraeopsis miraclei* n.sp.: 919
*Arctodiaptomus (Rhabdodiaptomus) michaeli* n.sp.: 1395
*Bathycamptus eckmani* n.gen. n.sp.: 798
*Bathyepsilonema anulosum* n.sp.
Kenyan coast: 1771
*Batracobdelloides tricarinata*: 1276
*Bipalium* spp.
Japan: 1268
*Boreolimella* n.gen.: 798
*Brachionus moronensis* n.sp.: 936
*Brachionus postcurvatus* n.sp.: 936
*Brachionus urceolaris reductispinis* n.ssp.: 936
*Branchinecta*
Yugoslavia: 1332
*Branchinecta belki* n.sp.
Mexico: 1032
*Branchinecta granulosa*: 327
*Branchipus cortesi* n.sp.
western Spain: 38
*Branchipus serbicus* n.sp.
Yugoslavia: 1334
*Bryocamptus pilosus* n.sp.
USA: 540
*Callionymus (Calliurichthys) marquesensis* n.sp.: 562
*Callionymus (Calliurichthys) pleurosticus 562*
*Callionymus (Calliurichthys) simplicicornis 562*
*Callionymus (Spinicapitichthys) obscurus* n.sp.: 562
*Caprogammarus*: 1678
*Carolinicola* n.gen.: 798
*Celsinotum* n.gen.: 561
*Celsinotum hypsilophum* n.sp.: 561
*Celsinotum parooensis* n.sp.: 561
*Celsinotum platamodes* n.sp.: 561
centric diatoms
River Thames (England): 1629
*Chaetocladius algericus* n.sp.
Algeria: 1180
*Chirocephalus brevipalpis*
Yugoslavia: 1331
Chydoridae
Ireland, review: 449
Cladocera
Iberian Peninsula, review: 37
Venezuela: 1889
*Colombodiaptomus brandorffi* n.gen. n.sp.: 600
*Colombodiaptomus brandorffi pilosa* n.ssp: 600
*Colpidium* and *Dexiostoma*
revision: 587

Conchostraca
Yugoslavia, revision: 1062
coronate medusae
polyp tubes: 825
*Ctenodaphnia*: 789
*Cyanea*
Long Island Sound (USA): 224
cystocarp structure
*Gelidium* vs *Pterocladia*: 1498
*Daphnia (Ctenodaphnia) hispanica* n.sp.
Spain: 622
*Daphnia similoides* n.sp.: 789
*Daphniopsis quadrangulus* n.sp.
salt lakes (Australia): 1552
*Decadidymus gulosus* n.gen. n.sp.: 266
desmids
Grane Langso (Denmark): 1254
Guma Valley (Sierra Leone, West Africa): 1424
*Desmodora pilosa*: 833
*Desmoscolex abyssorum*: 1607
*Desmoscolex coronatus* n.sp.: 1607
*Desmoscolex decraemerae* n.sp.: 1607
*Desmoscolex macrophasmata*: 1607
*Desmoscolex membranifer* n.sp.: 1607
*Desmoscolex parabyssorum* n.sp.: 1607
*Desmoscolex variabilis* n.sp.
Calvi Corsica, Mediterranean: 1607
*Diacyclops languidoides*: 1404
*Diaphanosoma brachyurum*: 827
*Diaphanosoma celebensis*: 914
*Diaphanosoma modigliani*
Sumatra: 915
*Diaphanosoma mongolianum*: 827
*Diaphanosoma senegal*: 916
*Dina eturpshem* n.sp.: 1585
*Dina krilata* n.sp.: 1585
*Dina svilesta* n.sp.: 1585
*Dipleuchlanis ornata* n.sp.: 1546
*Diplopeltis bathmanni* n.sp.: 833
*Diplopeltoides linkei* n.sp.: 833
*Diplopeltula belgica* n.sp.: 1779
*Diplopeltula curta* n.sp.: 1779
*Diplopeltula indica*: 1779
*Diplopeltula nellyae* n.sp.: 1779
*Diplopeltula pulchra* n.sp.: 1779
*Diplopeltula pumila* n.sp.: 1779
*Diplopeltula striolata* n.sp.: 1779
*Dosilia brouni*
Lake Baringo (Kenya): 1737
*Drunella karia* n.sp. nymph
Turkey: 882
*Dugesia japonica*
Japan: 1683
*Dugesia sanchezi*
Argentina: 1166
*Entacmaea medusivora* n.sp.
Palau, Western Caroline Islands: 509
*Eodiaptomus shihi* n.sp.
central India: 1394
*Euchlanis semicarinata* n.sp.: 1546
*Fredericella sultana*: 1863
freshwater snails
Namibia/Botswana: 236
freshwater sponges
Panamá: 1351
Gelidiales: 1499
gammaridean Amphipoda
Chile: 634
Gracilariales: 167
*Halicyclops* spp.: 1443
*Halicyclops hurlberti* n.sp.: 1443
*Halocordyle disticha*
Brazilian coast: 157
*Hemimesochra*: 798
*Ilyocryptus*
Europe, review: 1652
*Ilyocryptus elegans* n.sp.: 1292
*Ilyocryptus paranaensis* n.sp.: 1291
*Ilyocryptus samsuni* n.sp.: 682
*Itura deridderae* n.sp.: 1546
*Latonopsis australis*
Reggio Emilia recefield (Italy): 524
*Lecane dumonti* n.sp.: 1546
*Lecane nigeriensis* n.sp.: 1546
*Lecane nwadiaroi* n.sp.: 1546
*Lecane simonneae* n.sp.: 1546
*Lecane stichoclysta* n.sp.: 1546
*Lecane sylviae* n.sp.: 1546
*Lepadella berzinsi* n.sp.: 1546
*Lepadella discoidea* n.sp.: 1546
*Lepadella (Xenolepadella) curvicaudata* n.sp.: 1731
*Leptepsilonema richardi* n.sp.: 1771
*Leptolaimus meyer-reili* n.sp.: 833
*Littorina saxatilis* species-complex: 1141
*Lophocharis kutikovae* n.sp.: 1146
*Lophocharis turanica* n.sp.: 1146
*Maraenobiotus canadensis* n.sp.: 54
Marine Oligochaeta
Jiaozhou Bay (China): 491
*Mesopodopsis aegyptia* n.sp.: 1860
*Mesopodopsis wooldridgei* n.sp.: 1860
*Mesopodopsis tropicalis* n.sp.: 1860
*Mesopsyllus*: 798
*Moina weismanni*
central Europe: 790
*Monospilus dispar*
headshield: 1077
muscle fiber organizations
enchytraeids: 1739
*Neoboeckella loffleri* n.gen. n.sp.: 120
*Neomaraenobiotus laurentiacus* n.gen. n.sp.: 54
*Notholca* spp.
Andes: 769
*Paracilicaea keijii* n.sp.
Karachi coast (Pakistan): 828
*Pararaeolaimus rumohri* n.sp.: 833
*Pentacoelum hispaniensis*
Spain: 1592
*Perucamptus* n.gen.: 798
*Phallodrilus crypticus* n.sp.: 1449

*Phallodrilus labouichensis* n.sp: 1449
*Phallodrilus subterraneus* n.sp.: 1449
*Phyllodiaptomus sasikumari* n.sp.
South India: 1398
phyllophoroid algae
life history implications: 1034
*Pleurotrochopsis anebodica*: 1225
*Pseudoniphargus candelariae* n.sp.
Tenerife (Canary Islands): 1490
*Pusillargillus* n.gen.: 798
*Rheotanytarsus thailandensis* n.sp.: 1179
*Rhipidogammarus rheophilus* n.sp.
Tenerife (Canary Islands): 1655
Rotifera
classical vs modern taxonomy: 920
*Filinia longiseta - terminalis* complex: 1471
from Turkey: 1547
*Samuraia tabularasa* n.gen. n.sp.
Gulf of California (Mexico): 1051
*Sclerocypris tuberculata*: 1071
sea anemones
importance of nematocysts: 489
*Smittia durandae* n.sp.
Lebanon: 1180
*Southerniella nojii* n.sp.: 833
*Spelaeomysis cochinensis* n.sp.
India: 1301
*Squatinella lunata* n.sp.: 1546
*Staurastrum brachiatum* Ralfs var. *bicorne* n.var.: 1254
*Staurastrum dilatatum* var. *thomassonii* n.var.
Italy: 1423
*Staurastrum thomassonii* n.sp.: 1254
*Stephanoscyphistoma* n.gen.: 825
synonymy
within *Neodiaptomus*: 160, 1397
*Tanytarsus thaicus* n.sp.: 1179
*Tarvaia heegeri* n.sp.: 833
*Testudinella*
northeastern India: 1559
*Theristus altenbachi* n.sp.: 833
Norwegian Sea: 833
*Trichocerca kostei* n.sp.: 1546
*Trichocerca bicuspes*: 1245
wetlands (Canada, Ontario): 1245
*Tricoma (Quadricoma) tripapillata* n.sp.: 1608
*Tricoma (Tricoma) apophysis* n.sp.: 1608
*Tricoma (Tricoma) corsicana* n.sp.: 1608
*Tricoma (Tricoma) duopapillata* n.sp.: 1608
*Tricoma (Tricoma) latispicula* n.sp.: 1608
*Tricoma (Tricoma) pygmaea* n.sp.: 160
*Tricoma (Tricoma) setosa* n.sp.: 1608
*Tricoma (Tricoma) vincxae* n.sp.: 1608
*Tropodiaptomus asimi* n.sp.
West-Darfur (Sudan): 454
*Tropodiaptomus lateralis*: 1018
Tricladida
methods: 1858
*Viscosia erasmi* n.sp.: 577
*Xanthidium antilopaeum* Kütz. f. *bimaculatum* n.f.: 1254

**Tebuthiuron**
effect on aquatic productivity
mesocosm study: 1693

**Tegastidae**
*Tegastes clausi*
copepodid development
phylogeny: 373

**Teleostei**
*Callionymus (Calliurichthys) marquesensis n.sp.*: 562
*Callionymus (Calliurichthys) pleurosticus*: 562
*Callionymus (Calliurichthys) simplicicornis*: 562
*Callionymus (Spinicapitichthys) obscurus n.sp.*: 562
*Galaxias occidentalis*
reproductive biology: 1315

**Temnocephaloidea**
*Temnocephala* spp.
epidermal surface
SEM study: 378
symbionts of freshwater crayfish: 266
*Decadidymus gulosus* n.gen. n.sp.
Australia: 266
*Diceratocephala boschmai*
life history and biology: 852

**Temperature**
effect on bioenergetics
*Brachionus angularis*: 1807
effect on copepodid-naupliar ratio
calanoid copepods: 727
effect on denitrification: 477
effect on development
cyclopoid copepod larvae: 1036, 1037
*Hexarthra* spp.: 748
effect on distribution of Rotifera: 1139
effect on egg development time
cyclopoid copepods: 1036
*Synchaeta oblonga*: 1890
*Protonemura* spp.: 1068
effect on egg hatching
Brachionus plicatilis: 691
*Streptocephalus macrourus*: 1149
effect on embryonic duration
*Daphnia* and *Eudiaptomus*: 137
effect on excretion and respiration rates
*Neomysis integer*: 1820
effect on generation time
*Acanthocyclops robustus*: 368
effect on growth and survival
*Corbicula fluminea*: 559
freshwater algae: 384
*Gracilaria*: 989
*Indoplanorbis exustus*: 1303
*Laminaria abyssalis*: 1878
effect on life history
*Laminaria abyssalis*: 1878
rotifers: 1147
effect on agar content and quality

*Gracilaria spp.*: 989
effect on photosynthesis
*Dunaliella parva*: 837
*Gracilaria*: 989
effect on longevity
*Cyclops strenuus*: 1037
*Eucyclops serrulatus*: 1037
effect on reproduction
cyclopoid copepods: 4, 1037
*Indoplanorbis exustus*: 1303
effect on size of resting eggs
*Brachionus plicatilis*: 1554
effect on solubility of oxygen
Dead Sea brine: 1242
effect on year-class strength of plaice: 1342
effects on seasonal changes
in sugars and amino acids of particulate matter: 1152
high-resolution profile
Bremer River (Australia): 1644
induction of gamogenesis
*Scapholeberis armata*: 146
refuges
for herbivores
biomanipulation: 1558
seasonal patterns
arctic and subarctic streams: 803
structure
of lakes and ponds (Antarctica): 440
sulphur spring
in relation to hyphomycetes: 287

**Temperature-tolerant foraging habits**
*Catostomus commersoni*: 1006

**Temporal distribution**
bacteria
in sediment
Lagoa do Infernao (SP,Brazil): 558
Copepoda
Gulf of St. Lawrence (Canada): 313
protozooplankton
Esthwaite (U.K. Cumbria): 975
zooplankton
Ogochi Reservoir (Japan): 1734

**Temporal variability**
algal biomass and primary productivity
subtropical Florida lakes: 123

**Temporal variation**
biomass-specific photosynthesis: 1341
invertebrate drift
Mississippi River (USA, Louisiana): 908
invertebrates
chalk stream (U.K., Berkshire): 1867
macroflora and macroinvertebrates
impact of acidification: 1813
mercury in sediments and seston: 50
physical habitat
of *Orconectes neglectus*: 640
*Pterocladia capillacea*
essential elements and agar: 610
volume and surface area
saline lakes (Uganda): 1203
zooplankton composition
Lake Fletcher (Antarctica): 494

**Temporary waters**
coexistence of Anostraca,
Notostraca and Spinicaudata: 1699
epizootism on branchiopods: 1700
*Lepidurus couesii*
adaptations: 712
midge larvae: 812
Noto-, Ano- and Conchostraca
Maltese Islands (Mediterranean): 963
phyllopods
life-history strategies: 700
physical and chemical variables
distribution of phyllopods
South Africa: 701
polyphenolic compounds from litter: 1553
*Tanymastix stagnalis*
survival strategies: 647
*Triops granarius*
growth and reproduction: 1542

**Tenagomysis**
*tasmaniae*
life-history: 517

**Tensile strength**
macrophyte stems
adaptation to life in moving water: 223

**Tentacle**
*Aurelia* scyphistomae
polyp regeneration: 984
*Vallicula multiformis*
behaviour and ultrastructure: 485

**Tentilla**
*Vallicula multiformis*
behaviour and ultrastructure: 485

**Teratogenecity**
of developmental toxicants
detection by FETAX: 101

**Teratogenesis**
in planarians
effect of methylmercuric chloride: 156

**Terrestrial adults**
Plecoptera
control of stream insect populations: 1893

**Terricola**
*Geoplana marginata*
*Issoca rezendei*
karyology: 35
taxonomic and distributional studies
methods: 1858

**Territory**
size
newly-emerged Atlantic salmon: 685

**Test fishing**
acidified Swedish lakes
before and after liming: 407

**Testudinella**
from northeastern India: 1559

**Tetranychus**
*urticae*
pest on crop plants
control with liquid seaweed extract: 711

**Tetrasporic**
thallus
*Gelidium rex*
agar extraction: 1082

**Thalassiosira**
*weissflogii*
intracellular free amino acids
effect of Si-status on diel variation: 1075

**Thalestridae**
*Thalestris longimana*
nauplius I and copepodite stages: 374

**Thalli**
cystocarpic
tetrasporic
of *Gelidium chilense*: 1083

**Thallium**
toxicity
uptake kinetics and accumulated forms
in *Lemna*: 1602

**Thamnocephalus**
*platyurus*
cyst hatching: 451
cyst wall structure: 404

**Thecata**
Hydrozoa
morphogenesis
evolutionary implications: 129

**Theristus**
*altenbachi* n.sp.: 833

**Thermal**
classification
of lakes and ponds
Deception Island (Antarctica): 440
denaturation
DNA base composition
green algae: 560
gradient
in Portneuf River (USA, Idaho)
diatom species composition: 1780
pollution
effect on algal communities: 28, 1605
stratification
effect on magnitude of currents: 1781
tolerance
intertidal prosobranchs: 1117

**Thermocyclops**
*crassus*
seasonal cycle
Gronne Lake (Germany): 1038
*oithonoides*
carbon content
effect of lipids: 940

**Thoracic limb beat frequency**
*Daphnia*
effect of cyanobacterial extracellular products: 549

**Threshold levels**
nutrients
for long-term effect of fish manipulation: 834
food
*Euchlanis dilatata lucksiana*: 474

**Thymallus**
*arcticus*
demography
Beaverlodge River (Alberta): 270
predation on molluscs
arctic lake (Alaska): 1133

**Thymidine incorporation**
bacterial production determination: 308, 1060
bacterial densities: 972

**Tidal flats**
platyhelminth assemblages
Australia: 424

**Tidal flooding**
prevention
by dam construction: 1789
wave action effects
reducing device: 1099

**Tidal freshwater**
benthic oligochaete communities
James River Estuary (USA, Virginia): 422

**Tide pools**
boreal environment
seasonal absence of fishes: 1168
*Eurytemora affinis*
ecology: 280

**Tides**
effect on nutrient variations in water: 505
range alterations
effects on sediments: 1789

**Tilapia**
fluoride levels in tissues: 615
spp. in Lakes Victoria and Kyoga: 937
*zillii*
nesting and courtship behaviour: 243

**Time scales**
dynamic vs static models for photosynthesis: 1294

**Times to adulthood**
*Cyclops vicinus*: 1039
*Mesocyclops leuckarti: 1039*
*Thermocyclops crassus*: 1039

**Timing**
of cutting
effect on patterning and proportion regulation
*Dugesia* regeneartion: 1121

**Tipula**
*caloptera*
gut extracts
enzymatic release of sugars and amino acids: 110

**Tisbidae**
comparative copepodid development: 373
comparison of nauplii: 375
*Tisbe battagliai*
chronic toxicity to industrial effluents: 796
*Tisbe holothuriae*
light effects on population dynamics: 1140
*Scutellidium hippolytes*
naupliar development: 375

**Tissue chemistry**
*Stratiotes aloides* clones
comparison: 1408

**Tissue culture**
*Eklonia cava*: 881
*Dugesia japonica*: 807
*Gelidium*: 590
physical effects of culture medium
on red seaweed development: 1438

**Tissue distribution**
*Oscillatoria* toxin
in *Anadonta cygnea*: 490

**Tolerance**
copper
*Plectrocnemia conspersa* larvae: 381
salinity
fish: 1715, 1847

**Top-down effects**
London reservoirs (U.K.)
review: 457
Toolik Lake (USA, Alaska): 1257

**Total organic carbon**
origin, abundance and characteristics
Swedish forest lakes: 1128
in relation to chironomid dynamics
Lake Balaton (Hungary): 420

**Total phosphorus**
concentration
effect of resuspended solids: 927
distribution
Tjeukemeer (The Netherlands): 955
effect of restoration measures
Loosdrecht Lakes (The Netherlands): 1751
in relation rotifer occurrence: 152
in relation to occurrence of microcrustaceans: 151

**Toxic blooms**
Cyanobacteria: 1582
dinoflagellates
production of PSP: 496

**Toxic substances**
ammonium ions
lower River Rhine (The Netherlands): 199

**Toxicity reduction evaluation**
Maryland (USA) biomonitoring protocol: 533

**Toxicity**
acute and chronic bioassays and bioindicators
recent developments: 614
anionic surfactant
acute and chronic effects on tubificids: 279
assessment
microcomputer-based algal fluorescence technique: 1198
use of environmental assays: 1043
cadmium
effect on *Agapetus fuscipes* larvae: 1101
chlor-alkali effluent
*Selenastrum capricornutum*: 355
copper
effect on cladoceran species: 910
deltamethrin
effect on *Daphnia magna*: 1870
extracellular products of cyanobacteria
effect on *Daphnia*: 549
heavy metals
effects on *Asellus aquaticus*: 1138
hydrogen ion
effect on *Leptophlebia cupida*: 1462
effect on *Stenonema femoratum*: 1462
lindane and deltamethrin
effect on *Rana temporaria* tadpoles: 1707
mercury
Microtox Toxicity Bioassay: 1419
metals and oil
effect on *Daphnia magna*: 385
pulverized fuel ash leachates
effect on *Lemna minor*: 831
sewage-contaminated sediments

effect on *Macrocystis gametophytes*: 817
tebuthiuron
effect on aquatic productivity: 1693
testing
application of bioassay techniques: 1021
bacterial assays
comparison: 1410
design
importance of life cycle information: 1101
*Daphnia obtusa* life-tables: 332
sediment contaminants
bioassay with intertidal organisms: 1090
bioassessment by elutriation technique: 380
phytoplankton bioassay: 1199
single species: 255
thallium vs cadmium
effect on *Lemna minor*: 1602

**Toxicology**
LAS-treated sediment
experiment on *Branchiura*: 278
use of planarians: 156

**TPA**
induction of tumors
in *Dugesia dorotocephala*: 1170

**Trace elements**
bioavailability
controlling processes: 1013
distribution in sediments
Adirondack region (USA): 860
hypersaline lakes (Australia): 1017
Lake District tarns (U.K., Cumbria): 735
Lake Toolik (Alaska): 350
Lake Varese (Italy): 1367
Neusiedlersee (Austria): 681
dynamics
seasonally anoxic lake (?): 1167
for measurement of nutrient exchange rates: 1502
uptake
effects on *Chironomus riparius* larvae: 1709
uptake by lake sediments
effect of tubificid oligochaetes: 1623

**Tractive force**
effect on diversity of Trichoptera: 325

**Trajectories**
of nutrient elements
first-order stream: 1108

**Transdifferentiation**
striated muscle cells
*Podocoryne carnea*: 942

**Transects**
underwater
length (or area) measurement
odometre: 1184

**Transfer processes**
heavy metals
from sediments to organisms: 260

**Transformation**
of phosphorus
epilimnia of humic forest lakes: 850

**Transition zone**
thickness
distribution of *Chloronema* forms: 7

**Translocation**
$^{14}C$ and $^{32}P$
between *Savignium milleporum* and *Millepora dichotoma*: 337

**Transparency**
effect of fish removal: 717
cascading impact of planktivore abundance: 1120
effect of zooplankton grazing: 74
effect of flushing: 814
effect of refractory detritus: 630

**Transport**
of arsenic
between water and sediments: 347
of organic matter
food for suspension feeders: 1530
rates of propagule
effect on microbial community composition: 1104

**Trap position**
effect on diversity and abundance of catch: 482

**Trapa**
*natans*
harvesting for biomanipulation: 581

**Trapezia**
*cymodoce*
commensal on *Stylophora pistillata*: 1436

**Trapping**
of river discharge
role of physical processes: 555

**Trauma**
planarian regeneration: 732

**Travertine**
on Lake Torrens (South Australia)
$^{14}C$ data: 1525

**Trematoda**
infection
on *Littorina obtusa* and *L. mariae*: 1846

**Trends**
environmental factors and plankton communities
Loosdrecht lakes (The Netherlands): 1757

primary productivity
Lake Tahoe (USA): 826
subtidal macrobenthos: 1556

**Tribute**
to David Frey: 1833

**Tributyltin**
effect on colonisation of intertidal organisms: 1090

**Trichoptera**
*Agapetus fuscipes* larvae
toxicity of cadmium: 1101
*Apatania fimbriata*
life cycle: 76
copper location
in *Plectrocnemia conspersa* larvae: 381
diversity, abundance and distribution
Ochre River (Canada): 325
larvae
as prey for *Dytiscus latissimus* and *D. circumcinctus* larvae: 843
*Platanus* leaf litter
feeding test: 1042
limnephilid larval cases
predation by brown trout and sculpin: 842
*Sericostoma personatum* larvae
life cycle and food consumption: 1794
role in organic matter distribution: 1793
species associations
subarctic lakes and streams: 720

**Trichorythodes**
larvae
habitat characterization: 346

**Trichospaerium**
digestion of seaweeds
protoplast production: 1352

**Tricladida**
*Bdellocephala brunnea* embryos
SEM study of syncytium: 1481
*Bipalium* spp.
karyology: 1268
*Dugesia japonica*
karyology and taxonomy: 1683
*Dugesia sanchezi*
from Argentina: 1166
*Phagocata vitta*
feeding biology: 66
predators and planariid competitors: 67
*Geoplana marginata*
karyology: 35
*Issoca rezendei*
karyology: 35
*Pentacoelum hispaniensis*
from Spanish freshwater: 1592
*Polycelis (Seidlia) auriculata*
geographical distribution
in Japan: 880
taxonomic and distributional studies
methods: 1858

**Tricoma**
new species
Corsica, Mediterranean: 1608

**Triglidae**
*Aspitrigla cuculus*
feeding habits: 1164

**Triops**
*australiensis*
distribution
in Australia: 1854
*granarius*
natural growth and reproduction: 1542
*newberryi*
sex ratio: 1509

**Trophic cascade**
effect of nutrient concentrations
Lake Mendota (USA, Wisconsin): 1760
in relation to fish manipulation
short-term effects: 835

**Trophic evolution**
Lago Maggiore (Italy): 145

**Trophic guilds**
benthic communities
Tyrrhenian Sea (Italy): 326

**Trophic interactions**
among heterotrophic microplankton
nanoplankton and bacteria: 1821
between birds and molluscs
Lake Zegrzynskie (Poland): 1636
between hydrophytes and macrozoobenthos
Lake Zwemlust (The Netherlands): 912
biomanipulation: 392
effects of fish density on
planktonic communities and water quality: 771
in pelagic communities
Mondsee (Austria): 432
in zoobenthos community: 997
manipulation
to improve water quality: 623
phyto- and zooplankton and fish communities
Loosdrecht lake: 956
phytoplankton-zooplankton-fish
subtropical eutrophic lakes (USA, Florida): 358
pisci- and planktivorous fish and zooplankton: 1775
zoo- and phytoplankton communities
biomanipulation
overview: 957

**Trophic partitioning**
colonizing and indigenous goatfishes
eastern Mediterranean: 625

**Trophic relationships**
inland waters
symposium
concluding remarks: 627
niche overlap in fish fauna: 238

**Trophic state**
applicability of biomanipulation technique: 1014
assessment
in relation to sedimentary pigment estimation: 756
Baltic Proper: 1801
biomass quantification for food-web model: 91
effect on salmonid fish reproduction: 1189
effect on temporal variability
in algal biomass and primary productivity: 123
effect on zooplankton community structure: 676
importance of aquatic macrophytes: 1047
in relation to chlorophyll *a* and phytoplankton
Lake Liddell (Australia): 1463
in relation to stable isotopes of nitrogen: 1714
Lakes Loosdrecht and Maarsseveen (The Netherlands): 1536
long-term changes
Lake Ringsjön (Sweden): 142
nutrient dynamics and pelagic food web interactions
overview: 267
prediction by sedimentary diatom: 1835
relationship with plankton community respiration: 21
response to phosphorus
acidic and non-acidic lakes: 886
rotifer community structure: 222
rotifer occurrence: 152, 474
top-down effects
overview: 957
West Point Lake (USA): 121
zooplankton community structure: 1378
zoo- and phytoplankton interactions
experimental comparison: 484

**Tropical fish ponds**
water column respiration
influence of daylight and incubation interval: 1691

**Tropical freshwaters**
species richness: 1567

**Tropical marine fungi**
ecology
Brunei: 799

**Tropical phytoplankton**
effect of fish zooplanktivory
enclosures: 1248

**Tropical rivers**
see different continents

**Tropical zooplankton**
Calanoida
from Cordillera Oriental (Andes, Colombia): 600
invertebrate predator composition and diversity: 520

**Tropodiaptomus**
*asimi* n.sp.
West-Darfur (Sudan): 454

**Trout farm outlets**
effect on macrobenthic community structure: 264

**Trypsin**
effect on nematocyst discharge
*Aiptasia mutabilis*: 1485
*Calliactis parasitica: 1485*

**Tube-building behaviour**
*Grandidierella* and *Cerapus*: 111

**Tubifex**
*tubifex*
cohort cultures: 191, 1302
cyst formation: 54
population dynamics: 192
toxicity of metal-polluted sediments: 1837
*tubifex* and *'blanchardi'*
comparison of life cycles: 1302

**Tubificidae**
*Branchiura sowerbyi*
escape behaviour and respiration: 442
experiment
with LAS-treated sediment: 278
effect of anionic surfactant: 279
effect on zinc uptake by lake sediments: 1623
from Jiaozhou Bay (China, Yellow Sea coast): 491
metal uptake
effect of metal speciation: 683
*Phallodrilus crypticus* n.sp.: 1449
*Phallodrilus labouichensis* n.sp.: 1449
*Phallodrilus subterraneus* n.sp.: 1449
production
effect of carp predation: 1432
spermatozeugmata
structure: 522
*Tubificoides amplivasatus*
population dynamics: 492
vertical distribution
riverine mud: 976

**Tubificoides**
*amplivasatus*
population dynamics: 492

**Tumor promoter**
efffect on muscle transdifferentiation
*Podocoryne carnea*: 942

**Tundra streams**
epilithic community
photosynthesis and respiration: 209
*Prosimulium* response to phosphorus enrichment
Kuparuk River (USA, Alaska): 755

**Turbellaria**
*Bdellocephala brunnea*
effect of carcinogen: 782
*Bipalium* spp.
karyology: 1268
catecholamine-containing neurons
number and spatial distribution: 838
cell culture
experiments with culture media: 573
*Convoluta psammophila* embryos
morphogenesis: 526
*Decadidymus gulosus* n.gen. n.sp.: 266
*Dugesia japonica*
karyology: 1683
taxonomy: 1683
from Japan
historical review: 879
*Gyratrix hermaphroditus*-complex
chromosomal evolution: 1368
speciation: 1368
*Kontikia mexicana*
development of copulatory organs: 1267
Lecithoepitheliata
morphology: 1711
phylogeny: 1711
systematics: 1711
*Macrostomum*
nervous system
immunoreactivity to SALMF-amide: 1406
*Mesostoma lingua*
predation on *Daphnia magna*: 455
*Mesostoma* sp.
vertical distribution in relation to satiation: 397
*Microstomum lineare*
differentiation during reproduction: 1296
phagocytic response of reticular cells
to heat-killed bacteria: 1169
*Polycelis (Seidlia) auriculata*
geographical distribution
in Japan: 880
chromosomal polymorphisms: 1695
Polycladida
from Viti Levu (Fiji): 1676
predation on and by *Mesostoma* sp.: 1444
regeneration: 611, 1296
temporary freshwaters
Southern New England (USA): 1600
typhloplanid predators
role in shaping invertebrate communities: 177
ultrastructure
body-wall musculature: 1428
nervous system: 526
phagocytosis: 1169
proboscis: 401
shell-globules in vitelline cells: 656
spermatozoa: 806
statocyst morphogenesis: 526
syncytium: 1481
visual systems
comparative morphology
binocular vs multi-ocular planarians: 935

**Turbidity**
effect of algal blooms and storms: 1741
effect of clay discharges: 1373
effect of suspended solids: 389, 927
effect on ecosystem: 408
effect on foraging tactics
*Micropterus salmoides*: 366
effect on benthic invertebrates: 1484
effect on macrophyte growth: 1769
effect on periphyton: 645
effect on primary productivity: 665
effect on underwater light: 665
effect on vertebrate predators: 907
impact of benthivorous fish: 1125
use of turbidimeters: 620

**Turbulence**
effect on diel vertical migration
of zooplankton: 1478
entrainment of sediment: 58
under low flow conditions: 1560

**Turnover**
in microbial colonisation: 1105
iron, phosphorus, organic carbon: 547

**Turnover time**
sediment resuspension: 585
organic matter cycling: 1621

**Turtles**
accumulation of $^{226}Ra$ and $^{45}Ca$
effect of Ca and Mg concentration: 830

**TWINSPAN**
classification of diatom assemblages: 1791

**Typology**
of ponds and small lakes
Overijssel (The Netherlands): 1767

**Udotea**
pasmmophytic productivity
nutrient relationships: 1001

**Ultimate and effective particle size**
distribution
role in suspended sediment movement: 1803

**Ultrastructure**
*Atorella japonica*
muscles and nerves: 1087
*Aurelia aurita* ephyrae: 1628
rhopalium development: 1628
Cnidaria
skeleton: 1712
Enchytraeidae
muscle: 966, 1739
*Halammohydra intermedia*
nematocysts: 316
*Halicryptus spinulosus*
body wall: 823
*Millepora complanata*
ampullae and medusae: 991
Rotifera
skeletal muscles: 321
Tubificidae
spermatozoa: 522
Turbellaria
body-wall musculature: 1428
gonad: 656
nervous system: 526, 1411
phagocytosis: 1169
proboscis: 401
protonephridia: 1453
sagittocysts: 1873
shell-globules in vitelline cells: 656
spermatozoa: 806
statocysts: 472, 526
syncytium: 1481
visual system:23, 935,962, 1620, 1873
*Vallicula multiformis*
body-wall: 485
tentillum and tentacle: 485

**Ultraviolet radiation**
distribution of *Daphnia magna* genotypes: 761
impact on biogeochemistry of humic substances: 394

**Ulva**
*lactuca*
indicator of metal contamination: 760
*pertusa*
bioflavor production: 568
seaweed methanization: 1162

**Ulvales**
DNA base composition
variation: 560

**Ulvaria**
*oxysperma*
net cultivation: 870
sp.
parasexual fusion products: 868

**Umbra**
*limi*
abundance: 736
spatial distribution: 736

**Underground refuges**
for *Anguilla anguilla*: 1002

**Underwater light field**
characterization
in laboratory scale enclosures: 631

**Underwater light**
effect on algal growth
model: 633

**Unionicola**
*macani*
infection on *Lanistes ovum*: 507
*intermedia*
population dynamics: 92

**Upper Great lakes Connecting Channels**
environmental assessment: 1191

**Upstream flights**
by Plecoptera: 1893

**Upstream movement**
invertebrate drift: 141

**Uptake**
lead, cadmium and zinc
*Branchinecta longiatenna*: 1154
leucine
planarian cell culture: 573
polyhumic lake: 1206
nitrate
plants: 339
phosphorus
whole-stream release studies: 726
trace metals
*Chironomus riparius* larvae: 1709
urea
*Melosira italica*: 312

**Upwelling**
of cold water
relationship with toxic dinoflagellate bloom: 496
siphonophore distribution: 597

**Uranium mining**
$^{226}Ra$ and $^{45}Ca$ accumulation
freshwater turtles: 830

**Urastoma**
commensal on *Mytilus galloprovincialis*: 1211

**Urban stormwaters**
bioavailable metal uptake rate
determination: 1173

**Urbanisation**
impact on sediment chemistry: 550

**Urea**
uptake
*Melosira italica*: 312

**Uronic acid**
enzymatic degradation of alginate
by marine fungi: 1517
in fucose-containing polysaccharides
from brown algae: 1241

**Validation**
single species toxicity tests: 255

**Vallicula**
*multiformis*
behaviour and ultrastructure: 485

**Valonia**
*fastigiata*
*utricularis*
life history: 158

**Valvata**
predation by *Thymallus arcticus*: 1133

**Vanillic acid**
effect on *Chlorella* growth: 967

**Variability**
sources
in sedimentary pigment estimation: 756

**Variation**
*Alathyria jacksoni*
shell shape: 95
aquatic gammarideans
life-history traits: 1479
genus *Mesopodopsis*
morphogeography: 1860
phosphorus uptake length
whole-stream P release study: 726
Rotifera
taxonomic problems: 1471

**Varved sediments**
Holzmaar and Meerfelder Maar (Germany): 1888
Lakes Suurjärvi and Heinälampi (Finland): 668
Shropshire-Cheshire meres (U.K.): 506
Soppensee (Switzerland): 1009

**Vaucheria**
*dichotoma*
ecology: 1286

**Vectors**
of schistosomiasis
*Indoplanorbis exustus*: 1303

**Vegetation gradient**
in benthic algae
North Icelandic coast: 1201

**Vegetation**
communities
Special Zoological Reserve
Kopacki Rit (Yugoslavia): 1716
crayfish plague impact
Irish lakes: 1088
dynamics
effect of cooling water discharge
northern Baltic: 1605
eutrophic lakes
indirect effects of fish community structure: 231
mangroves of Tanzania
conservation: 1551
role in lake restoration: 663

**Vegetative propagation**
*Stratiotes aloides* clones: 1408

**Vendace**
growth and food consumption
bioenergetics model: 741

**Venn-complex**
compositional diversity
modelling: 858

**Venom**
of jellyfish
effects on humans: 247
volumes and flow rates
in *Anemonia* nematocysts: 1703

**Verrucae**
use in Actiniidae taxonomy: 1103

**Vertebrates**
for acute bioassays
industrial and municipal effluents: 533

**Vertical distribution**
*Acanthocyclops robustus*
predator-prey overlap: 1446
*Acartia hudsonica*: 188
bacteria and algae
grazing by *Daphnia*: 72
epipelagic siphonophores
off northern Namibia: 1290
hippopodiid siphonores
in relation to ostracods: 1369
interstitial organisms
effect of spates: 435
*Mesostoma* sp.
in relation to satiation: 397
midwater hydro- and scyphozoan medusae
North Atlantic: 968
*Nephelopsis obscura*
effect of dissolved oxygen regimes: 388
phytoplankton
Lake Volvi (Greece, Macedonia): 1185
Rotifera: 183, 1661
tubificids
riverine mud: 976
zooplankton
Lake Naivasha (Kenya): 1094

**Vertical flux**
particulate flows to benthic boundary layer
Trémies cave (France): 530

**Vertical gradient**
in lakes

distribution and adaptations of macrophytes: 223

**Vertical microdistribution**
*Littorina scutulata* and *L. sitkana*
rocky shores (Vancouver Island, Canada): 1786

**Vertical migration**
*Daphnia longispina*
stratified humic lake: 1489
*Daphnia magna*
analysis of phototaxis: 396
*Hexarthra bulgarica*: 275
*Keratella cochlearis*: 584
*Mesostoma* sp.: 1444
metalimnetic microorganisms
Lake Cisó (Spain): 598
overlap of prey with predator: 1843

**Vertical shear transport**
effect on salinity stratification
mangrove estuary: 1732

**Vesicles**
use in Actiniidae taxonomy: 1103

**Vicariance**
Lessoniaceae: 302
subterranean amphipods: 772
hydromedusan distribution: 1632

**Video technique**
growth measurement
Anostraca and medium-sized invertebrates: 402

**Viscosia**
*erasmi* n.sp.
Sunday River Estuary (South Africa): 577

**Visual system**
comparative morphology
binocular vs multi-ocular planarians: 935

**Vitamin $B_{12}$**
addition
nutritional value of *Chlorella*: 759

**Vitellne cells**
platyheliminths
ultrastructure of shell-globules: 656

**Vitellogenesis**
Scyphomedusae: 78

**Volcanic lakes**
Lake Nemi (central Italy)
detritus
depth-time distributions: 1458

**Volcanic landscape**
Costa Rica's Caribbean slope
basic chemistry of streams: 1365

**Voltage clamp**
neurotransmission in Hydrozoa: 1630

**Volume**
limestone pieces
regression against surface area: 329

**Waldeckia**
*obesa*
respiration: 1385

**Warm spring**
Portneuf River (USA, Idaho)
diatom species composition: 1780

**Warnstorfia**
impact on production and decomposition processes
Mekkojärvi Lake (Finland): 862

**Wash load**
from upstream catchment
estimation: 1356

**Washout depth**
of salmonid eggs
experimental channel: 361

**Wastewater**
effect on productivity of Lake Zürich
phytoplankton batch culture bioassays: 983

**WATCHEM**
mercury in lake sediments and seston: 50

**Water balance**
Hollands Ankeveen lakes: 1772
in *Libellula*
effect of aluminum toxicity: 1447

**Water bloom**
cyanobacterial picoplankton
formation dynamics: 1887
Lake Biwa (Japan): 1030

**Water chemistry**
canals and lakes
Rijnland area (The Netherlands)
historical vs recent data: 901
chalk streams: 147
Corixidae distribution
Carrib catchment (Ireland): 1729
Detroit River (USA, Michigan)
effect of contaminants on biota: 1054
Lake Banyoles (NE Spain): 592
lakes in Ontaria (Canada)
zooplankton species composition: 1562
Lake Manzala (Egypt): 890
Lakes Khanpur, Trigam and Tilwan (India, Kashmir)
calcite supersaturation: 921
Pilcomayo-Paraguay basins (Argentina): 1132
springs in Granada (Spain)
nematode distribution: 1263

**Water colour**
in relation to humic material: 546
in relation to organic matter: 1128
relationship with mercury in water: 1240
occurrence of microcrustaceans: 150
occurrence of Rotifera: 154

**Water column respiration**
influence of daylight and incubation interval
tropical fish ponds: 1691

**Water level lowering**
effect on eutrophication
Lake Sevan (Armenia): 1307
effect on water quality
Lake Biwa (Japan): 941

**Water levels**
seasonal fluctuations
intermittent tropical forest stream: 291
wetland community changes
St. Marys River (USA, Michigan): 1844

**Water loss**
vs gill area
supralittoral amphipods: 1067

**Water mites**
indicators of natural aquatic ecosystems: 1599
predation on Cladocera: 1093
*Unionicola intermedia*
population dynamics: 92

**Water movement**
adaptations of macrophytes: 223
effect on depth distribution and size of sea anemones: 723
effect on prey capture and distribution of corals: 1543, 1544

**Water pollution**
see also Pollution
application of bioassay techniques: 1021
in relation to acid rain: 995

**Water Quality Research Loosdrecht Lakes (The Netherlands)**
workgroup
publications: 1750
history, structure and research: 1755

**Water quality**
assessment
application of bioassays: 1046
Belgian biotic index method
proposal for modification: 149
Loosdrecht lakes (The Netherlands): 766
criteria
control of episodic pollution: 1540
bog drainage impact: 1012
Brewery and Boating Lakes (Nigeria, Jos): 46
Buffalo River (South Africa, Eastern Cape)
reservoir impact: 1299
by remote sensing
Loosdrecht lakes (The Netherlands): 409
effects of fish zooplanktivory: 1248

effect of low water levels
Lake Biwa (Japan): 941
effect of oil refinery effluent: 1578
effect of reduced effluent load
Lake Päijänne (Finland): 648
follow-up restoration measures
Loosdrecht lakes (The Netherlands): 400
forest brooks
effects of clear-cutting and scarification: 22
Humber estuary (England): 112
impact of nuclear power plant: 1061
impact of pollution
River Lujan (Argentina): 619
in relation to heavy metals
Langat River (Malaysia): 1505
in relation to phosphorus loads
Hartbeespoort Dam (South Africa): 1705
Linggi River drainage basin (Malaysia): 1506
macroinvertebrate community structure: 240
management
biomanipulation: 134, 663
by *Dreissena polymorpha*: 1400
by sediment dredging: 1740
Loosdrecht lakes (The Netherlands): 487
multidisciplinary function: 1702
nutrient cyclings: 545
role of chironomids: 420
role of Oligochaeta: 1768
shallow lake ecosystems (The Netherlands)
epilogue: 1752
research
Loosdrecht lakes (The Netherlands)
results: 679
St. Clair River (Canada, Ontario): 660, 661
tributaries
evaluation with macroinvertebrates: 534

**Water renewal**
effect on diel cycles
of dissolved oxygen and nutrient content: 493

**Water residence time**
biomanipulation: 636

**Water sampler**
for lakes, rivers and seas: 1510

**Water sampling**
from boat and helicopter
chemical analysis
comparison: 667

**Water temperature**
see also Temperature
chalk streams
prediction from air temperature: 1022
effect on seasonal changes
in benthic macroinvertebrate communities: 436

**Water transparency**
long-term changes
Lake Geneva (France/Switzerland): 100

**Water velocity**
measurement by head tube: 310
microhabitat selection
stream fishes: 503
preferences
larval *Austrosimulium furiosum: 779*
larval *Simulium ornatipes*: 779

**Water yield**
mountain stream
effect of fire: 227

**Water-bath**
rearing of aquatic animals: 1069

**Waterfowl**
distribution and predation on molluscs
Lake Zegrzynskie (Poland): 1636

**Watershed**
cation export to streams: 348
chemical changes in reservoirs: 1391
disturbance from wildfire
effect on macroinvertebrate communities: 1426

**Wave action**
effect on macrophyte growth: 1769
effects
reducing device: 1099
predictive model
Lake Marken (The Netherlands): 1783

**Wave exposure**
form variation and productivity
*Gigartina*: 811

**Weapon fallout**
$^{241}$Am record in lake sediment cores: 59
$^{137}$Cs activity in sediment
Llyn Llygad Rheidol catchment (U.K.): 194
sediment radionuclide inventories
Ponsonby Tarn (U.K., Cumbria): 195

**Weber's organ**
*Anuraeopsis* spp.
shape variation: 919

**Weight**
limestone pieces
regression against surface area: 329

**Weighted averaging method**
diatom-inferred pH: 1694

**Wetland**
ecosystems (Australia)
biological effects of salinity: 724
Lake St. Clair (Canada/USA)
biota: 977
litter decomposition
effect of humic substances: 1371
St. Marys River (USA, Michigan)

historical changes: 1844
summary: 636

**White sucker**
Fe, Zn and Cu accumulation: 1880

**Whitefish**
ecology and physiology
in acidified lakes: 1387
predation effects on zooplankton community
Lake Suwa (Japan): 706

**Whole effluent testing**
acute toxicity of effluents: 533

**Whole-lake experiment**
biomanipulation: 134, 1743
fish manipulation
Danish lakes
long-term effects: 834
short-term effects: 835
food-web manipulation
Lake Breukeleveen (The Netherlands): 1742
zooplankton community structure
influence of fish elimination: 1058

**Whole-pond manipulation**
effects of fish density
on plankton communities: 771

**Wild harvest**
Irish moss
eastern Canada: 1366

**Wildlife**
British North Sea estuaries
conservation: 387

**Wind**
contribution to mixing
Mahoney Lake (Canada, British Columbia): 1808
effect on horizontal distribution of zooplankton: 1770
effect on *Microcystis* hyperscum formation: 1887
effect on resuspension of settled algae and detritus: 633
effect on resuspension of solids: 740, 927, 1682
indirect effect on *Hexarthra* development: 748

**Winter**
ecology
spectral transmittance of lake ice: 189

**Woody debris**
effect on nutrient retention: 75

**Workshop**
Intermediate Disturbance Hypothesis in Phytoplankton Ecology
epilogue: 1414
perspectives: biomanipulation in inland waters

**Xeniidae**
developmental pathways: 130
sexual reproduction: 130

**Xenopus**
embryos
for FETAX test: 101

**Xenoturbellida**
statocysts
ultrastructure: 472

**xylogalactan sulphate**
from *Chondria macrocarpa*: 576

**Year-class strength**
*Pleuronectes platessa*: 1342

**Yeast**
algal substitute
anostracan culture: 354

**Yield**
*Artemia franciscana*
culture: 9
*Eucheuma* spp.: 80
fish
tropical rice fields (Malaysia): 33
*Gelidium*: 1501
smolt of Atlantic salmon
in lakes (Canada, Newfoundland): 1323

**Young-of-the-year**
burbot
biology
Shebandowan Lake (Canada, Ontario): 1473

**Younger Dryas**
duration
varve chronology of Soppensee (Switzerland): 1009

**Zebra mussel**
impact on native unionid clams
Lake St. Clair (Canada/USA): 1023

**Zinc Equivalent Value**
relative toxicity of Zn:Cu:Ni
plant species: 300

**Zinc**
accumulation
*Chironomus* larvae: 824
macrophytes: 1055
*Nereis diversicolor: 297*
*Scrobicularia plana*: 297
oligochaetes: 1477
talitrid amphipods: 1384
concentration
*Catistomus commersoni*: 1880
lake sediments: 851, 860
cycling
effect on phytoplankton: 725
distribution in tissues
*Catostomus commersoni*: 1880
talitrid amphipods: 1816
effect on 'scope for growth'
*Gammarus pulex*: 1226
loss
during amphipod moulting cycle: 1816
monitoring by *Enteromorpha*
in estuaries: 1514
uptake
*Branchinecta longiatenna*: 1154
*Chironomus riparius* larvae: 1709
lake sediments: 1623
talitrid amphipods: 1816

**Zoantharia**
aggression
synopsis: 1848

**Zoanthidea**
*Protopalythoa* sp.
gametogenesis and spawning: 1474
*Zoanthus sociatus* and *Z. solanderi*
fission and dynamics of genets and ramets: 872

**Zoea**
development
*Philyra globosa*: 926

**Zonation**
algal morphologies
intertidal habitats (Chile): 1500
benthic algae
North Icelandic coast: 1201
benthos
Paraná River (Argentina): 1056
Diptera and Hemiptera
Naro Moru River (Kenya): 1081
Ephemeroptera
subtropical river: 437
hydroids
Twin Cays mangrove (Belize): 256
mangrove plants: 82, 1756

**Zoobenthos**
bioindices
lake pollution assessment: 866
biomass
effect of fish removal: 1430
density decline in profundal sediments
analysis of causative factors: 971
role in energy flow
Lake Thingvallavatn (Iceland): 997
sublittoral Amphipoda
Antarctica: 829

**Zoogeography**
*Branchinecta*
Yugoslavia: 1332
*Chirocephalus brevipalpis*
Yugoslavia: 1331
fish fauna
Argentina: 1132
*Halicyclops*: 1443
limnetic zooplankton
Canadian Shield lakes (Ontario): 1562
Ostracoda
Iberian saline lakes (Spain): 98
Rotifera
Balearic Islands (Mediterranean Sea): 395
floodplain lakes (Nigeria): 1548
from Turkey: 1547
zooplankton and benthos
arctic Alaska: 905

**Zooid**
composition
*Stylactaria conchicola* comb. nov.: 1221

**Zooplankton**
abundance
Frederiksborg Slotsso (Denmark): 1430
Lake Awasa (Ethiopia): 1130
Lake Christinia (USA, Minnesota): 717
Lake Geneva (France/Switzerland): 100
Lake Manzala (Egypt): 891
Lake Mead (USA): 1609
Lake St. Clair (Canada/USA): 1194
Rufiji River delta (Tanzania): 1675
bacteria as P source: 751
biomanipulation
review: 635
biomass
biomanipulated vs unmanipulated lakes: 1014
Frederiksborg Slotsso (Denmark): 1430
lagoon of Tikehau atoll (French Polynesia): 292
Lake Vaeng (Denmark, Jutland): 1618
Lake Zwemlust (The Netherlands, Utrecht): 1743
relationship with phytoplankton biomass: 501
response to fish reduction
River Danube (Hungary): 200
*Bosmina*

hybridization
Lake Muskoka (Canada, Ontario): 994
community structure
Azibo reservoir (Portugal): 1762
biomanipulated vs unmanipulated Dutch lakes: 675
effect of fertilization: 1272
effect of fish removal: 1058, 1618
effects of invertebrate predation: 951
impact of *Chaoborus* predation: 733, 1648, 707
impact of cyclopoid predation: 1446, 1843
impact of *Leptodora* feeding: 747
impact of predation by *Alosa aestivalis*: 671
impact of whitefish predation: 706
Lake Kinneret (Israel): 638
Lake Naivasha (Kenya): 1095
Lake Ringsjön (Sweden): 142
Lake St. Clair (Canada\USA): 1634
Ogochi Reservoir (Japan): 1734
predation by *Neomysis* vs *Chaoborus*: 705
relation to lake trophy: 1378
relation to trophic status and restoration measures: 676
role of predatory flatworms: 175
Westport River Estuary (USA): 334
collection
sampler: 990, 1322
competition
*Synchaeta oblonga* vs *Scapholeberis kingi*: 616
composition
Lake Christina (USA, Minnesota): 717
Lake Fletcher (Antarctica): 494
Lake Naivasha (Kenya): 1095
Lake St. Clair (Canada): 1194
Mondsee (Austria): 432
control of algal biomass
subtropical eutrophic lakes (USA, Florida): 358
Crustacea
embryonic development time: 137
in saline pans (Seewinkel, Austria): 1137
*Daphnia galeata*
feeding mechanism: 1735
density reduction
effect of silver carp predation: 988
diel vertical migration
Ebrié Lagoon (France): 1478
distribution and diversity
Lake Naivasha (Kenya): 1095
mangrove creek system (Kenya): 1281
Rufiji River delta (Tanzania): 1675
dynamics
humic acid lake: 734
effect of lindane and deltamethrin: 1708
effects on phytoplankton
lakes of contrasting trophic status: 484
ETS-activity
Lake Balaton (Hungary): 578
*Eudiaptomus gracilis*
sex-specific mortality
effect of fish predation: 1667
*Eurytemora affinis*
ecology: 280
feeding on seston
Rhone river plume area (NW Mediterranean): 599
functional bioassays
comparison: 1119
grazing and nutrient regeneration
overview: 267
grazing
effect of fish predation: 1248
hypertrophic Lake Zwemlust (The Netherlands): 1744
impact on chlorophyll and transparency: 74
impact on phytoplankton community structure: 1668
Loosdrecht lakes (The Netherlands): 678
horizontal distribution
effect on population density estimates: 1770
interactions with phytoplankton and fish
Lake Sobygård (Denmark): 836
*Kellicottia longispina*
morphological variation: 468
larval *Coregonus albula* feeding: 871
microcrustacean and rotifer communities
Malaysian ricefields: 32
niche overlap
between herbivorous cladocerans: 750
phytoplankton control: 624
population dynamics and production: 1441, 1741
predators
*Alestes baremoze*: 713
*Brycinus nurse*: 713
*Chaoborus* larvae: 306, 933
*Coregonus laveratus*: 1388
cyprinids: 1126
invertebrates: 520
*Mesostoma* spp.: 177
*Mirogrex terraesanctae*: 961
*Piona exigua*: 250
*Salvelinus namaycush: 1109*
prey to benthic predators: 1535
regeneration of phosphorus: 475
relationship with chemical and physical variables: 1757
relationship with phytoplankton
effect of biomanipulation: 274
role in fishery
Lake Naivasha (Kenya): 1095
rotifer abundance and diversity
Po River (Italy): 525
seasonality
Lake Awasa (Ethiopia): 1130
Lake Naivasha (Kenya): 1095
species composition
Lake Manzala (Egypt): 891
in lakes of Ontario (Canada): 1562
utilization of blue-greens as food
overview: 392
vertical distribution
Lake Naivasha (Kenya): 1094

**Zooplanktivorous fish**
effect on chlorophyll-total P regressions: 1374

**Zoosporangial sori**
*Ecklonia* bladelets
photosynthesis: 69

**Zooxanthellae**
algal photosynthates: 1436
of *Entacmaea medusivora* n.sp.: 509
photosynthesis
in symbiotic *Leptoseris* coral: 1523

**Zostera**
*marina*
role in heavy metal cycling: 1015